STATE OF WISCONSIN ORDER OF SHEETS DEPARTMENT OF TRANSPORTATION Section No. Typical Sections and Details Estimate of Quantities Section No. Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Section No. Plan and Profile (Includes Erosion Control Plan) Section No. Section No. Standard Detail Drawings **MENOMONIE - RIDGELAND** Section No. Section No. Computer Earthwork Data S FORK LOWER PINE CREEK (C-17-0049) Section No. **STH 25** TOTAL SHEETS = **DUNN COUNTY** STATE PROJECT NUMBER 8090-00-73 STRUCTURE C-17-0049 TOWN OF PRAIRIE FARM **TOWN OF DALLAS** T-31-N T-31-N 36 DUNN AVE AVE **END PROJECT** STA. 12+00 DESIGN DESIGNATION 8090-00-03 2021 = 2,650 **BEGIN PROJECT** = 2,950 = 210 STA. 10+75 = 60/40 1410TH Y = 282,920.37 = 13.8% X = 170,934.12 DESIGN SPEED = 55 MPH 1390TH = 970,000 137 **CONVENTIONAL SYMBOLS** 1370TH CORPORATE LIMITS **GRADE LINE** ///////. PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) S LIMITED HIGHWAY EASEMENT **EXISTING RIGHT OF WAY** AVE GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE **EXISTING CULVERT** 1300TH PROPOSED CULVERT GAS **TOWN OF SHERIDAN TOWN OF WILSON** SANITARY SEWER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COMBUSTIBLE FLUIDS ± LAYOUT STORM SEWER COORDINATES, DUNN COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. 1 MI VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. TELEPHONE SCALE WATER MARSH AREA ELEVATION SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH UTILITY PEDESTAL X TOTAL NET LENGTH OF CENTERLINE = 0.024 MILES AMERICAN VERTICAL DATUM OF 1988, NAVD (2011). POWER POLE Ġ WOODED OR SHRUB AREA TELEPHONE POLE

# ORIGINAL PLANS PREPARED BY Second Se





### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor

Designer

Project Manage

JEWELL ASSOCIATES ENGINEERS, INC.
JEWELL ASOCIATES ENGINEERS, INC.

roject Manager egional Examiner egional Supervisor

BRETT HOLLISTER, P.E.

TOU YANG, P.E.

JAMES KOENIG, P.E.

APPROVED FOR THE DEPARTMENT

Breth Hollista
(Signature)

DUNTY\SHEETSPLAN\W11604 TITLE SHEET.DWG

PLOT DATE: 12/16/2021 11:06:03

Y: ETHAN KAAT

SCALE : 1" = 1'

LAYOUT: TITLE SHEET 1 IN EQ 1 MI

### **GENERAL NOTES**

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EROSION CONTROL ITEMS IN THE MISC. QUAN. ARE SUGGESTED. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. MAINTAIN EROSION CONTROL ITEMS UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY. PROTECT WETLANDS AND OTHER WATERWAYS THAT ARE PRESENT WITHIN THE PROJECT LIMITS.

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEEDING TEMPORARY, & SEED MIX NO. 30), AND MULCHED AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WETLAND AREAS SHALL BE SEEDED WITH MIXTURE NO. 60. DO NOT FERTILIZE WETLAND AREAS.

EXISTING SHOULDER AGGREGATE SHALL BE INCORPORATED INTO THE NEW SHOULDERS UNLESS OTHERWISE DIRECTED BY THE ENGINEER IN THE FIELD.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A VERTICAL EDGE MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

HMA PAVEMENT QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

8.25-INCHES OF HMA PAVEMENT SHALL BE CONSTRUCTED WITH A 2.25-INCH UPPER LAYER, 3-INCH MIDDLE LAYER, AND 3-INCH LOWER LAYER OF HMA PAVEMENT 4 MT 58-34 S.

THE EXACT LOCATIONS AND LIMITS OF PRIVATE ENTRANCES, COMMERCIAL, AND FIELD ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

APPLY TACK COAT AT A RATE OF 0.07 GAL/SY BETWEEN LAYERS OF HMA PAVEMENT.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING,

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATED SECTION EQUALS THE SUPERELEVATION

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

ADJUST DITCH GRADING AS NECESSARY TO FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO "DIGGERS HOTLINE" AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE

IF THERE ARE CONFLICTS WITH SIGNS OR OTHER WORK UNDER THIS PROJECT, THE CONTRACTOR WILL WORK AROUND THE SIGN FACILITIES.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS, BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO STRUCTURE REMOVAL.

#### CONTACTS

WISCONSIN DEPARTMENT OF TRANSPORTATION:

WISDOT CONSULTANT PROJECT MANAGER 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 BRETT HOLLISTER, P.E. PH: (715) 843-3161 rB@AyresAssociates.com

WDNR LIAISON:

STATE OF WISCONSIN DNR NORTH WEST REGION HQ 1300 WEST CLAIREMONT AVE. EAU CLAIRE, WI 54701 ATTN: LEAH NICOL PH: (715) 934-9014

EMAIL: leah.nicol@wisconsin.gov

#### DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 1001 FOURIER DRIVE, SUITE 104 MADISON, WI 53717 ATTN: JEFF SMITH, P.E. PH: (608) 459-6091 EMAIL: jeff.smith@jewellassoc.com

### UTILITIES

ELECTRICITY

DUNN ENERGY COOP ATTN: MIKE ANDRASCHKO N5725 600TH STREET PO BOX 220 MENOMONIE, WI 54751-0220 OFFICE: (715) 232-6240 MOBILE: (715) 231-0214 EMAIL: mandra@dunnenergy.com COMMUNICATION LINE

MOSAIC TELECOM ATTN: DENNIS RUSSETT **401 SOUTH 1ST STREET** PO BOX 664 CAMERON, WI 54822-0664 OFFICE: (715) 458-5378 MOBILE: (715) 458-5518 EMAIL: drussett@experiencemosaic.com



#### LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	RDWY	Roadway
AC	Acre	IP	Iron Pipe or Pin	SALV	Salvaged
AGG	Aggregate	IRS	Iron Rod Set	SALV SAN S	· ·
AH	Ahead	JT	Joint		Sanitary Sewer
<	Angle	JCT	Junction	SEC	Section
ASPH	Asphaltic	LHF	Left-Hand Forward	SHLDR	Shoulder
AVG	Average	L	Length of Curve	SHR	Shrinkage
ADT	Average Daily Traffic	LIN FT	Linear Foot	SW	Sidewalk
BAD	Base Aggregate Dense	or LF	Linear 100t	S	South
BK	Back	LC	Long Chord of Curve	SQ SE THE SQ ET	Square
BF	Back Face	MH	Manhole	SF or SQ FT SY or SQ YD	Square Feet
BM	Bench Mark	MB	Mailbox		Square Yard
BR	Bridge	ML or M/L	Match Line	STD	Standard
C or C/L	Center Line	N	North	SDD STH	Standard Detail Drawings
CC	Center to Center	Y	North Grid Coordinate	STA	State Trunk Highways Station
C.E.	Commercial Entrance	OD	Outside Diameter	SS	Storm Sewer
CTH	County Trunk Highway	PLE	Permanent Limited	SG SG	
CR	Creek		Easement		Subgrade
CR	Crushed	PT	Point	SE St S /I	Superelevation
CY or CU YD	Cubic Yard	PC	Point of Curvature	SL or S/L SV	Survey Line
CP	Culvert Pipe	PI	Point of Intersection		Septic Vent Tangent
C.& G	Curb and Gutter	PRC	Point of Reverse Curvature	T TEL	
D	Degree of Curve	PT	Point of Tangency		Telephone
DHV	Design Hour Volume	POC	Point On Curve	TEMP	Temporary
DIA	Diameter	POT	Point on Tangent	TI TLE	Temporary Interest Temporary Limited
E	East	PVC	Polyvinyl Chloride	ILE	Easement
Χ	East Grid Coordinate	PCC	Portland Cement	t	Ton
ELEC	Electric (al)		Concrete	T or TN	Town
EL or ELEV	Elevation	LB	Pound	TRANS	Transition
ESALS	Equivalent Single Axle	PSI	Pounds Per Square Inch	TL or T/L	Transit Line
	Loads	P.E.	Private Entrance	T	Trucks (percent of)
EBS	Excavation Below	R RR	Radius Railroad	TYP	Typical
FF	Subgrade Face to Face	R	Range	UNCL	Unclassified
F.E.	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable
F	Fill	RP RP	Reference Point	USH	United States Highway
FG	Finished Grade	RCCP	Reinforced Concrete	VAR	Variable
FL or F/L	Flow Line	11001	Culvert Pipe	V	Velocity or Design Speed
FT	Foot	REQD	Required .	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC.	Vertical Curve
GN	Grid North	RW	Retaining Wall	VOL	Volume
HT	Height	RT	Right	WM	Water Main
CWT	Hundredweight	RHF	Right-Hand Forward	WV	Water Valve
HYD	Hydrant	R/W	Right-of-Way	W	West
INL	Inlet	RD	Road	WB	Westbound
ID	Inside Diameter	R	River	YD	Yard
-		**			

### **ORDER OF SECTION 2 SHEETS:**

- GENERAL NOTES, UTILITIES, CONTACTS & ABBREVIATIONS
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- TRAFFIC CONTROL
- ALIGNMENT DETAILS

		HYDROLOGIC SOIL GROUP										
	А				В С		2	D		)		
	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	ie (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	ie (PERCENT)
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT												
ASPHALT						.709	95					
CONCRETE	CONCRETE .8095											
BRICK .7080												
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS .7595												
GRAVEL ROADS, S	HOULD	DERS				.406	50					

TOTAL PROJECT AREA= 1.13 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.62 ACRES

SHEET

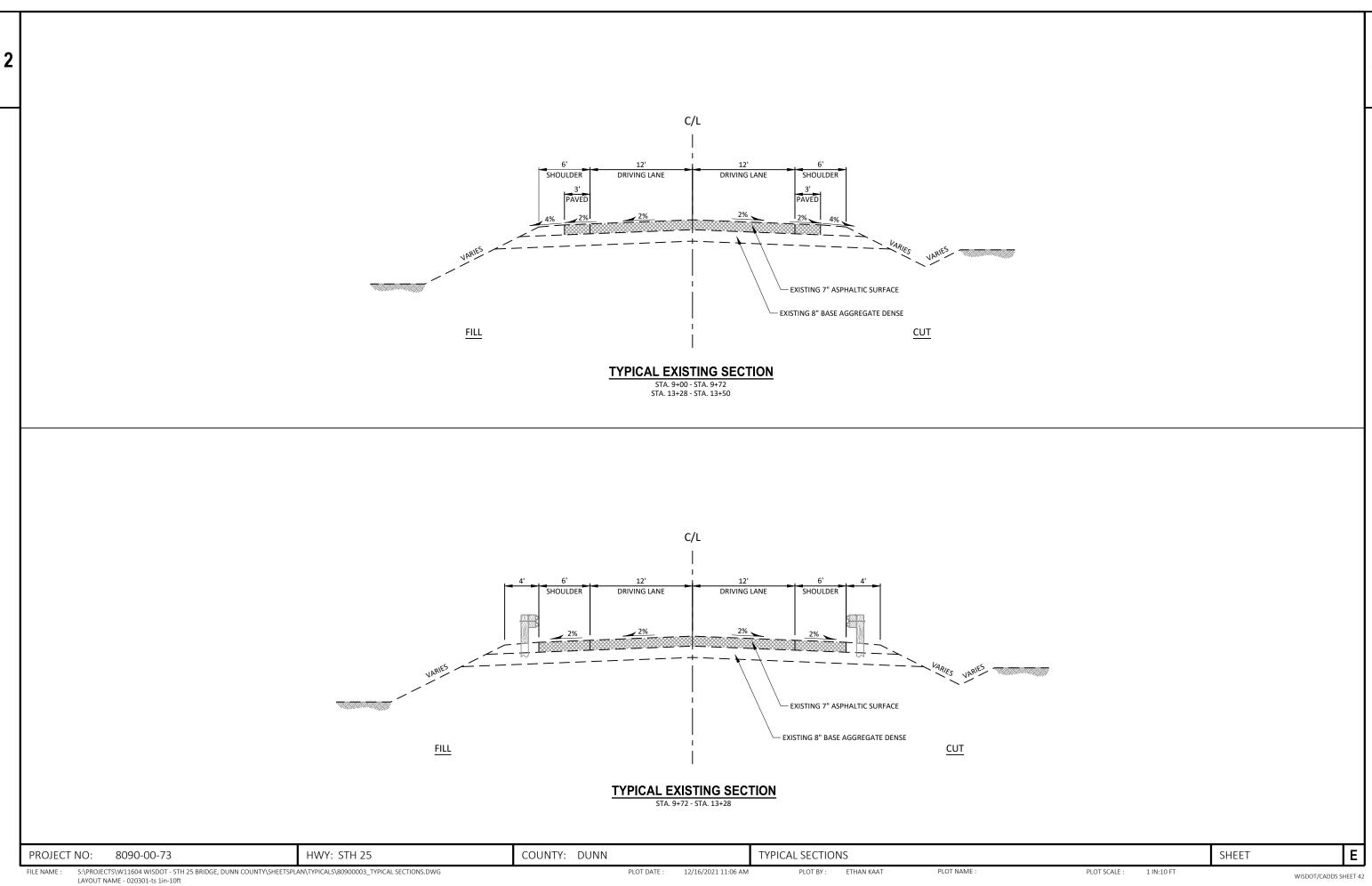
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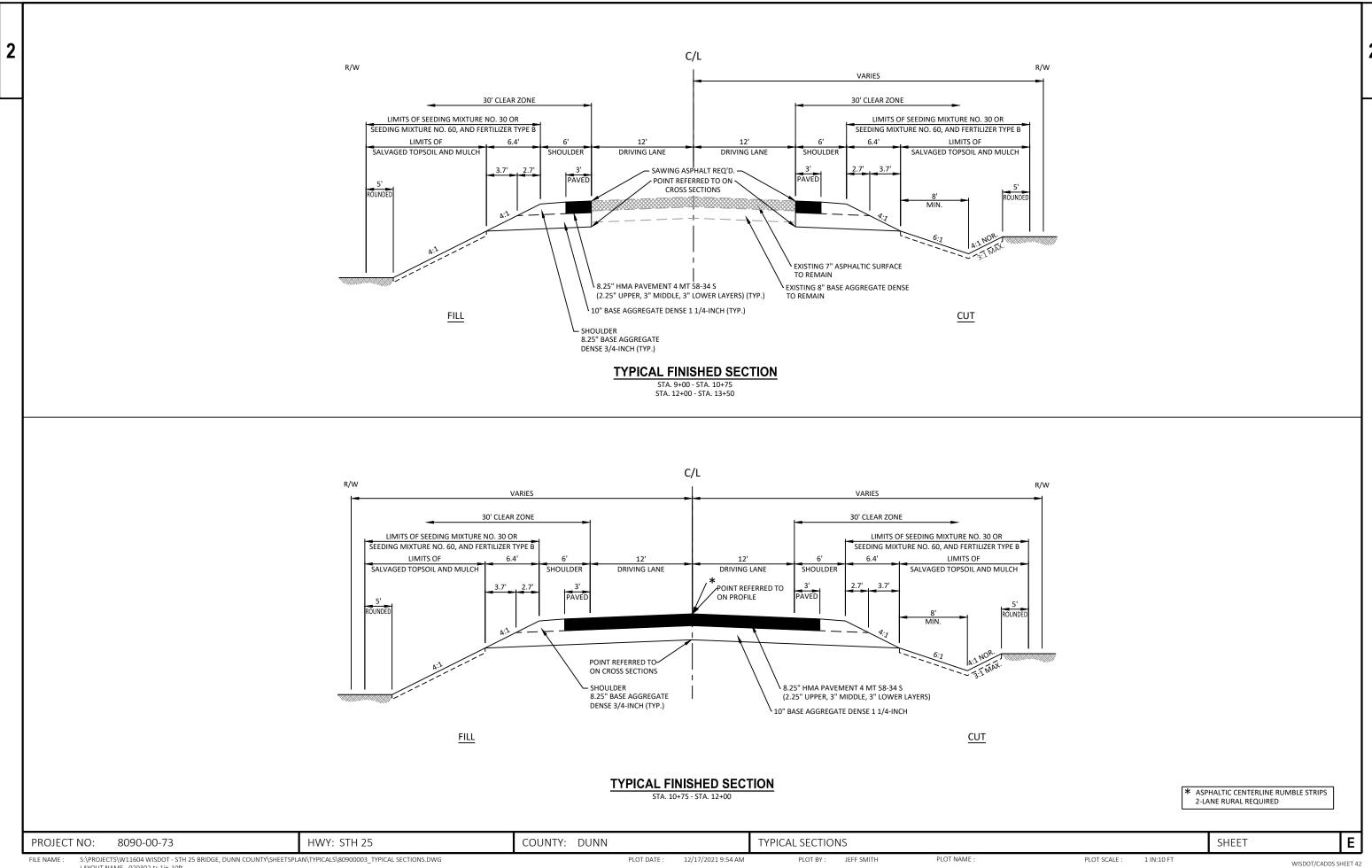
PROJECT NO: 8090-00-73

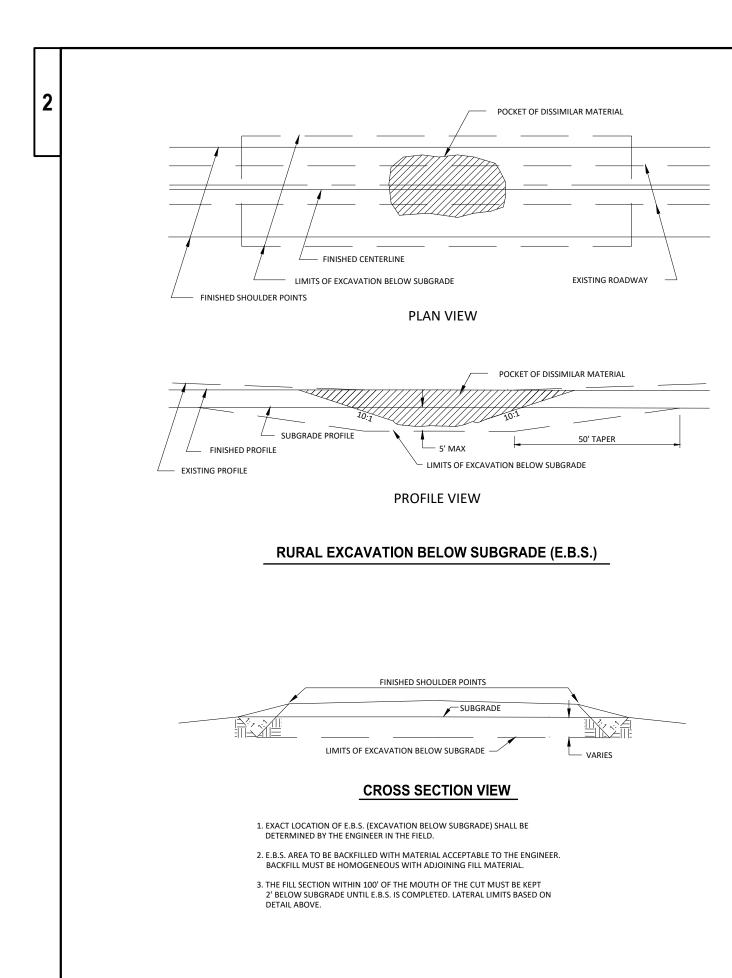
HWY: STH 25

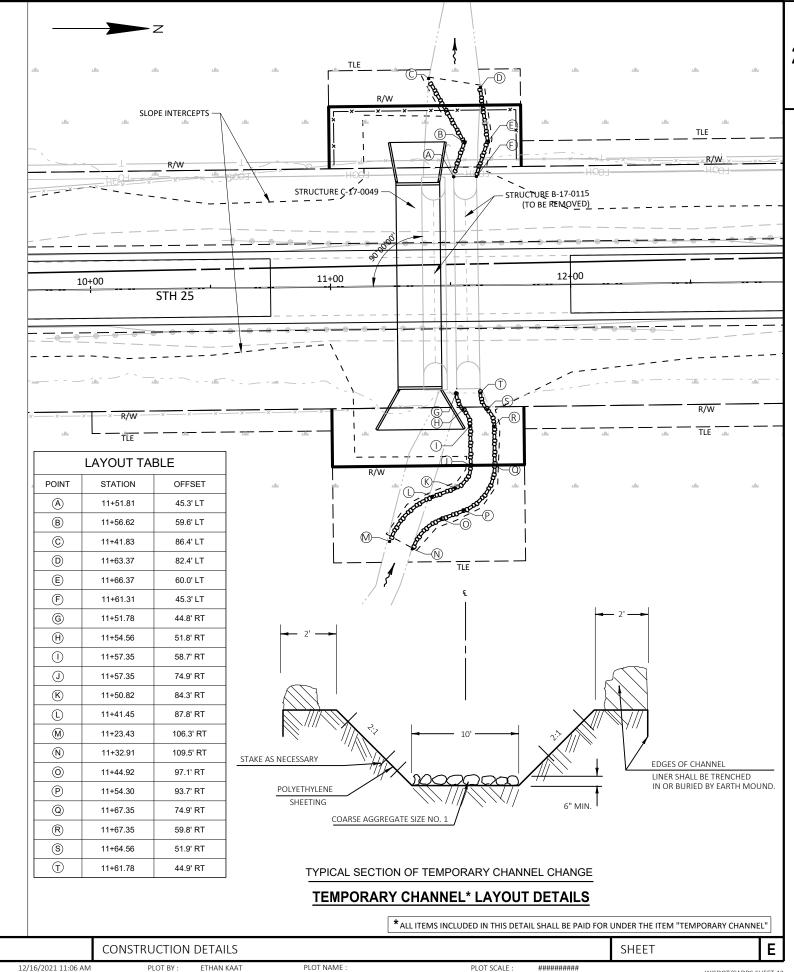
**COUNTY: DUNN** 

GENERAL NOTES, UTILITIES, CONTACTS & ABBREVIATIONS







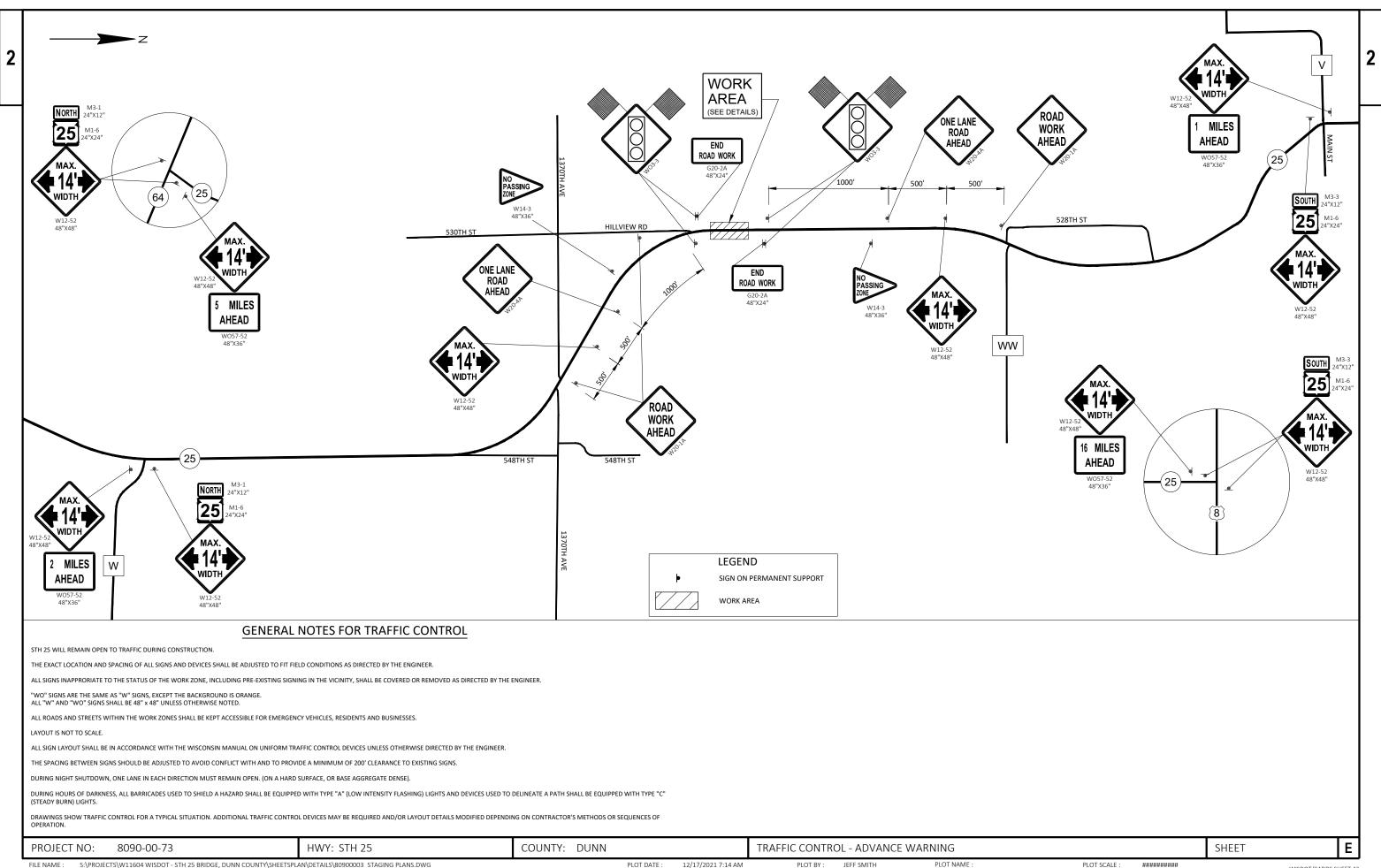


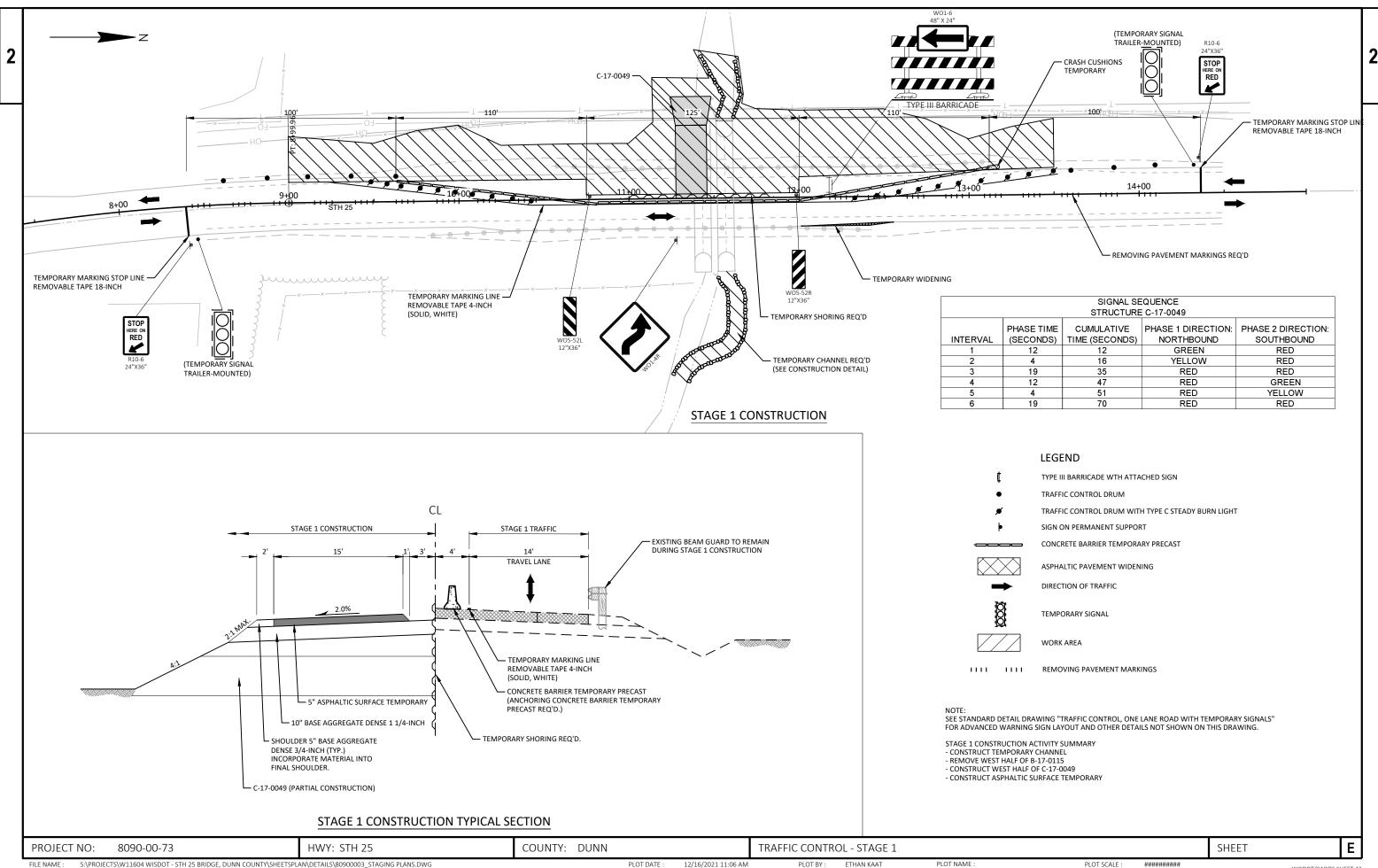
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8090-00-73

HWY: STH 25

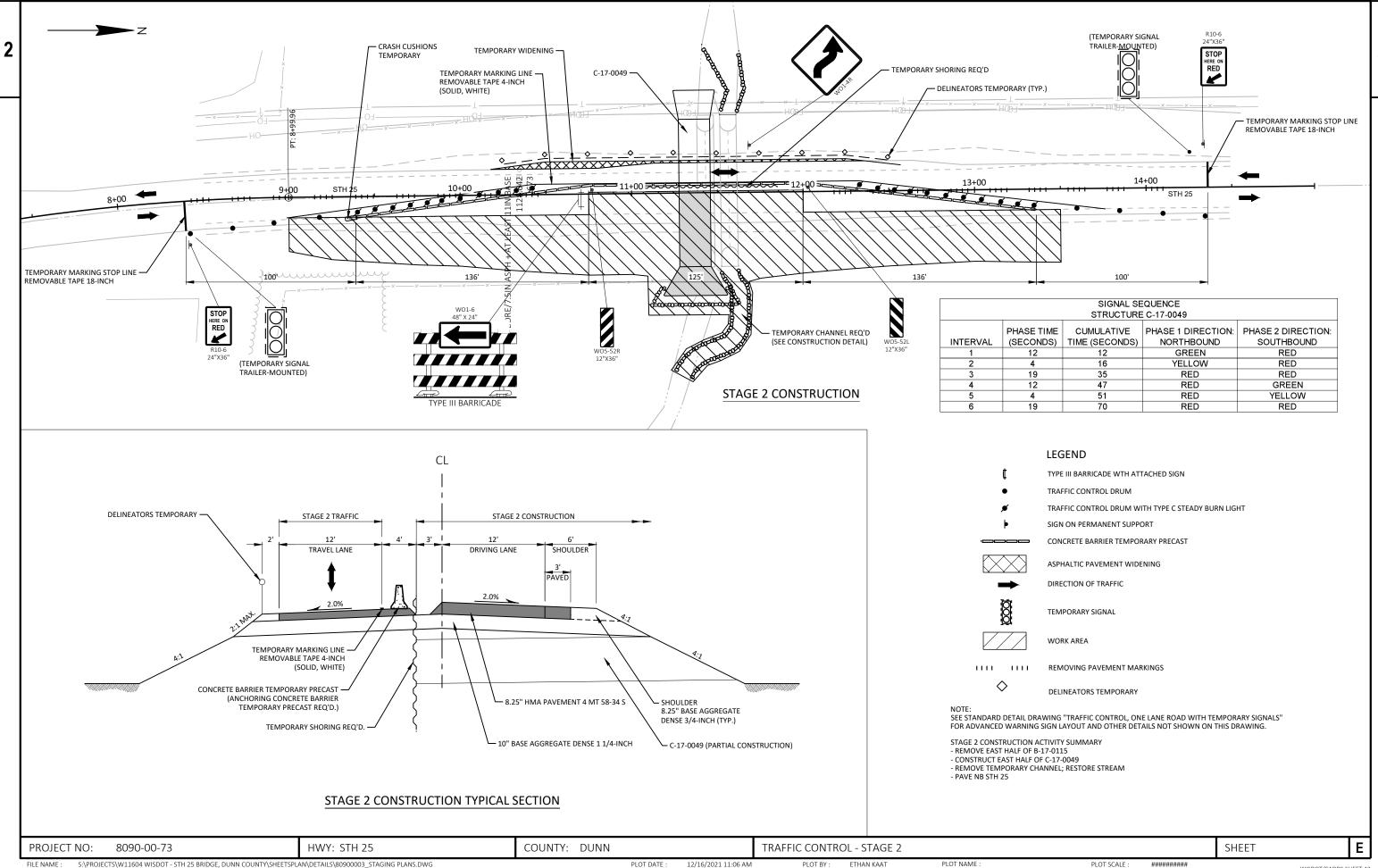
COUNTY: DUNN

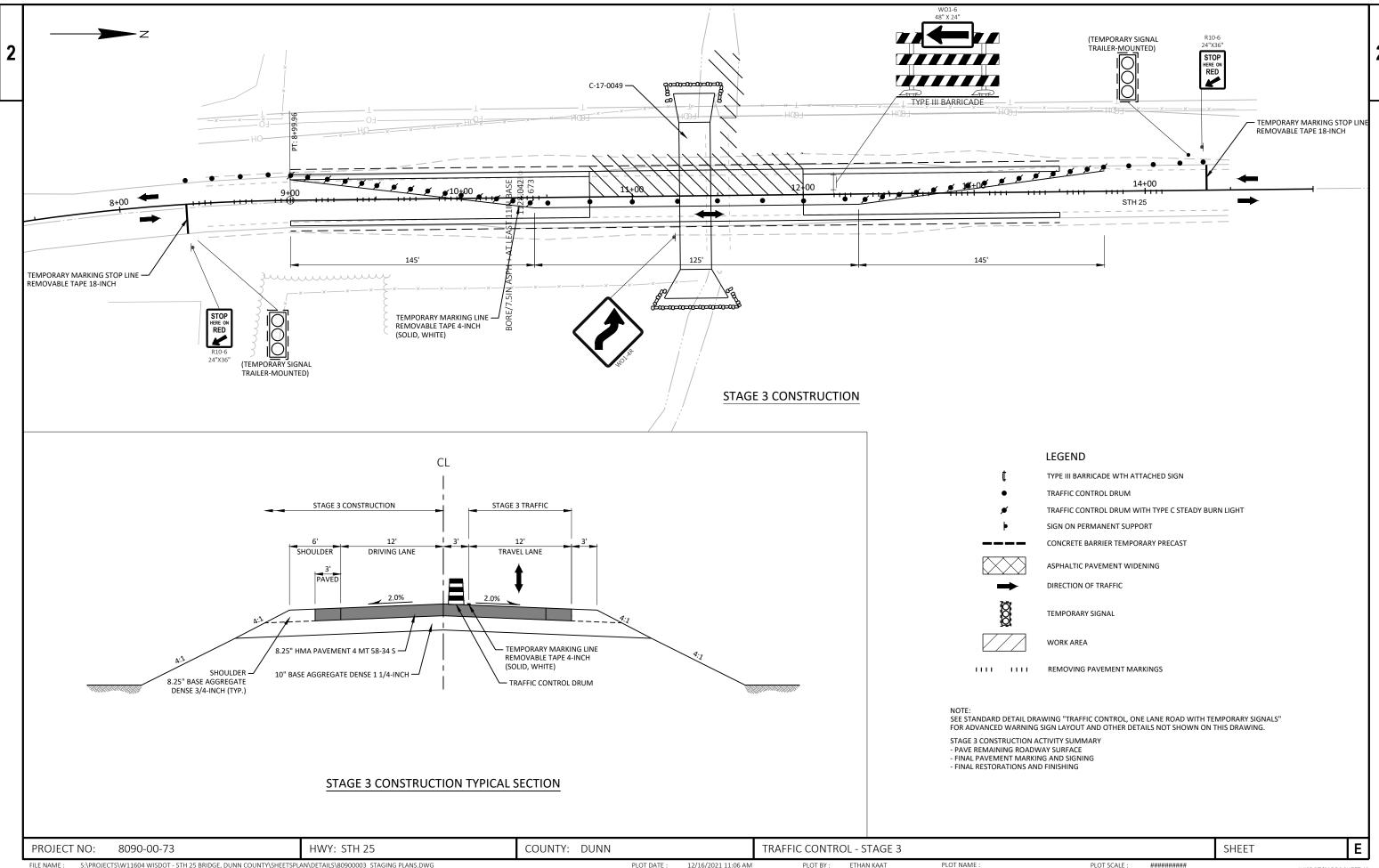


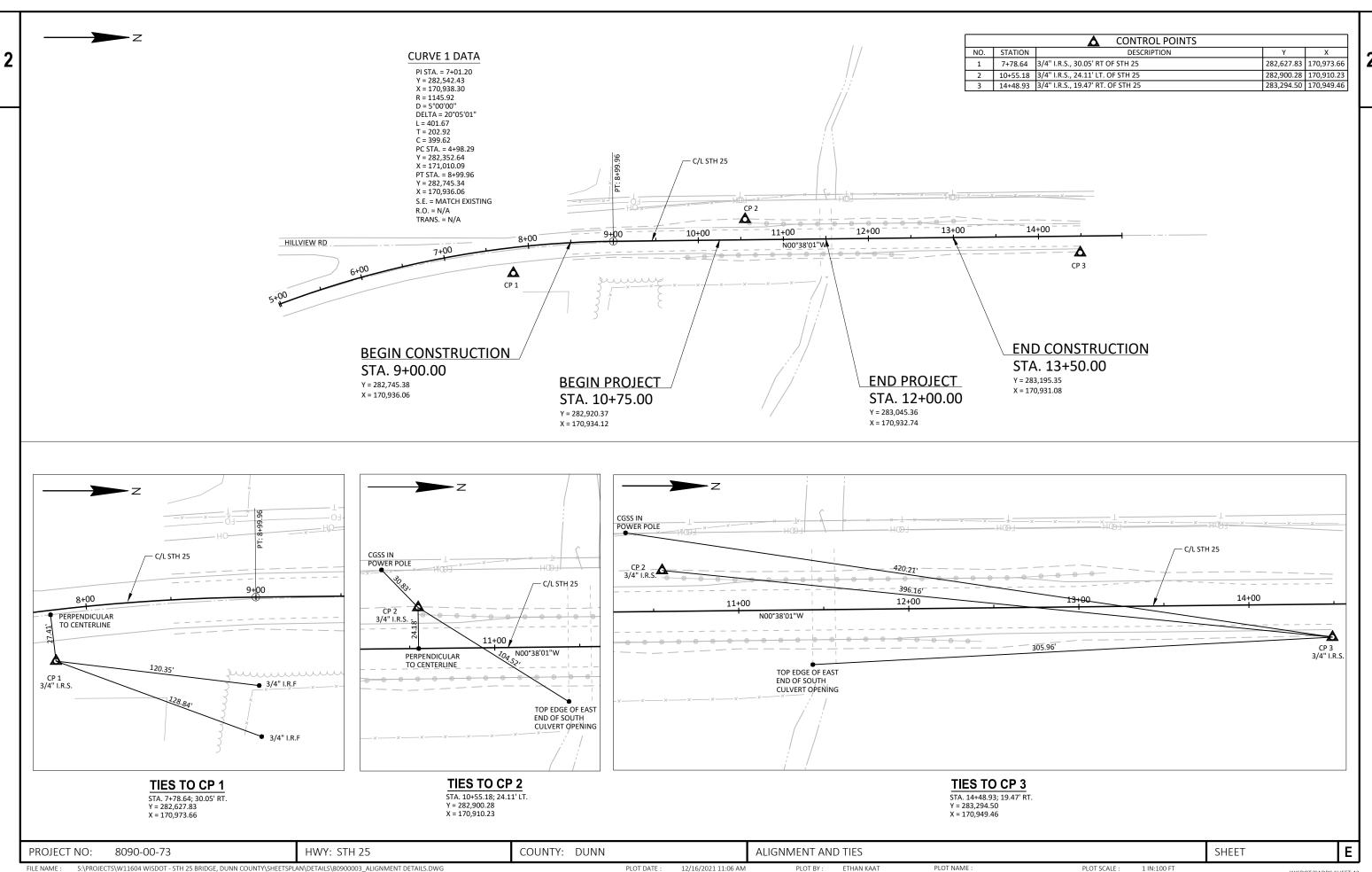


PLOT BY:

PLOT SCALE :







					8090-00-73	
Line	Item	Item Description	Unit	Total	Qty	
0002	203.0220	Removing Structure (structure) 01. B-17-0115	EACH	1.000	1.000	
0004	204.0165	Removing Guardrail	LF	530.000	530.000	
0006	204.0170	Removing Fence	LF	150.000	150.000	
8000	205.0100	Excavation Common	CY	710.000	710.000	
0010	206.2000	Excavation for Structures Culverts (structure) 01. C-17-0049	LS	1.000	1.000	
0012	210.2500	Backfill Structure Type B	TON	1,784.000	1,784.000	
0014	213.0100	Finishing Roadway (project) 01. 8090-00-73	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	250.000	250.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	860.000	860.000	
0020	311.0115	Breaker Run	CY	116.000	116.000	
0022	455.0605	Tack Coat	GAL	50.000	50.000	
0024	460.2000	Incentive Density HMA Pavement	DOL	210.000	210.000	
0026	460.6244	HMA Pavement 4 MT 58-34 S	TON	330.000	330.000	
0028	465.0125	Asphaltic Surface Temporary	TON	17.000	17.000	
0030	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	125.000	125.000	
0032	504.0100	Concrete Masonry Culverts	CY	194.000	194.000	
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	18,690.000	18,690.000	
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	1,420.000	1,420.000	
0038	511.1200	Temporary Shoring (structure) 01. C-17-0049	SF	1,400.000	1,400.000	
0040	516.0500	Rubberized Membrane Waterproofing	SY	24.000	24.000	
0042	603.8000	Concrete Barrier Temporary Precast Delivered	LF	400.000	400.000	
0044	603.8125	Concrete Barrier Temporary Precast Installed	LF	750.000	750.000	
0046	603.8500	Anchoring Concrete Barrier Temporary Precast	LF	750.000	750.000	
0048	606.0300	Riprap Heavy	CY	33.000	33.000	
0050	614.0905	Crash Cushions Temporary	EACH	2.000	2.000	
0052	616.0100	Fence Woven Wire (height) 01. 4 FT	LF	120.000	120.000	
0054	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8090-00-73	EACH	1.000	1.000	
0056	619.1000	Mobilization	EACH	1.000	1.000	
0058	624.0100	Water	MGAL	17.000	17.000	
0060	625.0500	Salvaged Topsoil	SY	2,000.000	2,000.000	
0062	627.0200	Mulching	SY	2,000.000	2,000.000	
0064	628.1504	Silt Fence	LF	1,100.000	1,100.000	
0066	628.1520	Silt Fence Maintenance	LF	2,200.000	2,200.000	
0068	628.1905	Mobilizations Erosion Control	EACH	9.000	9.000	
0070	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0072	629.0210	Fertilizer Type B	CWT	2.000	2.000	
0074	630.0130	Seeding Mixture No. 30	LB	50.000	50.000	
0074	630.0160	Seeding Mixture No. 60	LB	7.000	7.000	
0078	630.0200	Seeding Temporary	LB	60.000	60.000	
0080	633.1100	Delineators Temporary	EACH	10.000	10.000	
0082	633.5100	Markers ROW	EACH	8.000	8.000	
0084	633.5200	Markers Culvert End	EACH	2.000	2.000	
0086	642.5001	Field Office Type B	EACH	1.000	1.000	
0088	643.0300	Traffic Control Drums	DAY	3,430.000	3,430.000	
0090	643.0420	Traffic Control Warning Lights Type C	DAY	120.000	120.000	
0092 0094	643.0715 643.0900	Traffic Control Warning Lights Type C Traffic Control Signs	DAY DAY	2,470.000	2,470.000	
				5,400.000	5,400.000	
0096	643.5000	Traffic Control	EACH	1.000	1.000	
0098	645.0105	Geotextile Type C	SY	374.000	374.000	

### **Estimate Of Quantities**

8090-00-73

Page 2

Line	Item	Item Description	Unit	Total	Qty
0100	645.0120	Geotextile Type HR	SY	79.000	79.000
0102	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	1,200.000	1,200.000
0104	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	1,200.000	1,200.000
0106	646.9000	Marking Removal Line 4-Inch	LF	1,190.000	1,190.000
0108	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	3,240.000	3,240.000
0110	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	24.000	24.000
0112	650.4500	Construction Staking Subgrade	LF	450.000	450.000
0114	650.5000	Construction Staking Base	LF	450.000	450.000
0116	650.6500	Construction Staking Structure Layout (structure) 01. C-17-0049	LS	1.000	1.000
0118	650.9910	Construction Staking Supplemental Control (project) 01. 8090-00-73	LS	1.000	1.000
0120	650.9920	Construction Staking Slope Stakes	LF	450.000	450.000
0122	661.0100	Temporary Traffic Signals for Bridges (structure) 01. C-17-0049	LS	1.000	1.000
0124	690.0150	Sawing Asphalt	LF	740.000	740.000
0126	715.0502	Incentive Strength Concrete Structures	DOL	1,170.000	1,170.000
0128	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	600.000	600.000
0130	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0132	SPV.0060	Special 01. Temporary Channel	EACH	1.000	1.000

		204.0165
STATION - STATION	LOCATION	(LF)
9+81 - 12+43	STH 25, RT	265
10+55 - 13+16	STH 25, LT	265

TOTAL =

### EARTHWORK SUMMARY

					EXPANDED		
		205.0100			FILL	MASS	
		EXCAVATION COMMON	AVAILABLE	UNEXPANDED	(CY)	ORDINATE	
		CUT	MATERIAL	FILL	FACTOR	+/-	WASTE
FROM/TO STA	LOCATION	(CY)	(CY) (1)	(CY)	1.25 (2)	(CY) (3)	(CY)
9+00 - 13+50	MAINLINE	710	710	175	220	490	490
	TOTALS =	710	710	175	220	490	490

### NOTES:

- 1.) AVAILABLE MATERIAL = CUT
  2.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL)\*1.25
- 3.) THE MASS ORDINATE+ OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY.

### FENCE ITEMS

		204.017 REMOVING FENCE	616.01 FENCE WOVEN WIRE (4 FT)
STATION - STATION 11+00 - 12+00	LOCATION STH 25, LT	(LF) 100	120
10+55 - 13+16	STH 25, RT	50	
	TOTAL =	150	120

### BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0110 3/4-INCH (TON)	305.0120 1 1/4-INCH (TON)
9+00 - 13+50	STH 25, LT	120	(TON)
9+00 - 13+50 9+00 - 13+50	STH 25, RT STH 25	130 	 860
	TOTALS =	250	860

### HMA PAVEMENT

		455.0605 TACK	460.6244
		COAT	4 MT 58-34 S
STATION - STATION	LOCATION	(GAL)	(TON)
9+00 - 13+50	STH 25	50	330
	TOTAL 0 -		220

### ASPHALTIC SURFACE TEMPORARY

465.0125
(TON)
15
2
17

### ASPHALTIC CENTERLINE RUMBLE STRIPS 2-LANE RURAL

		465.0475
STATION - STATION	LOCATION	(LF)
10+75 - 12+00	STH 25	125
	TOTAL =	125

### WATER

		624.0100
STATION - STATION	LOCATION	(TON)
9+00 - 13+50	STH 25	17
	TOTALS =	17

### CONCRETE BARRIER

			603.8000 TEMPORARY PRECAST	603.8125 TEMPORARY PRECAST	603.8500 ANCHORING CONCRETE BARRIER
			DELIVERED	INSTALLED	TEMPORARY PRECAS
STATION - STATION	LOCATION	STAGE	(LF)	(LF)	(LF)
9+63 - 13+12	STH 25	1	350	350	350
9+39 - 13+36	STH 25	2	50	400	400
		TOTALS =	400	750	750

### FINISHING ITEMS

		625.0500	627.0200	629.0210	630.0130 SEEDING	630.0160 SEEDING	630.0200
		SALVAGED		FERTILIZER	MIXTURE	MIXTURE	SEEDING
		TOPSOIL	MULCHING	TYPE B	NO. 30	NO. 60	TEMPORARY
STATION - STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)	(LB)
9+00 - 13+50	STH 25, LT	840	840	0.7	19	3	-
9+00 - 13+50	STH 25, RT	750	750	0.8	21	3	-
_	UNDISTRIBUTED	410	410	0.5	10	1	60
	TOTALS =	2,000	2,000	2	50	7	60

PROJECT NO: 8090-00-73 HWY: STH 25 FILE NAME: S:\PROJECTS\W11604 WISDOT - STH 25 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\80900003\_MISCELLANEOUS QUANTITIES.DWG COUNTY: DUNN

MISCELLANEOUS QUANTITIES

PLOT DATE : 2/21/2022 11:45:38 AM

PLOT BY: KARTER ZAJICEK

LAYOUT: LAYOUT 1

SHEET

Ε

SILT   FENCE   MAINT	MOBILIZATIONS EROSION CONTROL	MARKERS ROW    STATION	MARKERS CULVERT END  STATION 11+37  LOCATION STH 25, LT & RT  TOTAL = 2
643.0300  TRAFFIC CONTROL DRUMS  STATION PROJECT PROJECT PROJECT STH 25 PROJECT ADVANCE WARNING STAGE 1 STH 25 STAGE 2 STH 25 1,200 STAGE 2 STH 25 STAGE 3 STH 25 1,720 STAGE 3 STH 25 STAGE 3 STH 25 STAGE 3 TOTALS = 3,430	TRAFFIC CONTROL  643.0420 643.0715 643.0900 643.5000 633.1100  TRAFFIC TRAFFIC CONTROL CONTROL CONTROL SIGNS  TYPE III LIGHTS TYPE C (DAY) (DAY) (EACH)  4,760 4,760 40 880 240 60 1,260 350 - 10 20 330 50 - 1 10 20 330 50 120 120 2,470 5,400 1 10	· · · · · · · · · · · · · · · · · · ·	CT CRASH NG TRAFFIC CUSHION
MARKING LINE REMOVAL 4-INCH           STATION - STATION 8+40 - 14+35         LOCATION STAGE (LF) 1,190           TOTAL = 1,190           *STAGE 2 & 3 DO NOT REQUIRE ADDITIONAL MARKING LINE REMOVAL	MARKING LINE GROOVED WET REF EPOXY 4-INCH	CONSTRUCTION S  4520 NG LINE E DAY OXY NCH LF) 9+00 - 13+50  TOTALS = 450  ** CATEGORY 0020	**650.6500 650.9910
TEMPORARY TRAFFIC SIGNALS FOR BRIDGES 01. C-17-0049	TEMPORARY MARKING LINE REMOVAB  649.0  STATION-STATION LOCATION STAGE (LF  8+40 STH 25, RT 1-3 -  8+40 - 14+35 STH 25, LT & RT 1 1,08  14+35 STH 25, LT & RT 1 1,08  14+35 STH 25, LT & RT 2 1,08  RED RED RED RED STH 25, LT & RT 3 1,08  RED RED RED STH 25, LT & RT 3 1,08  RED RED STH 25, LT & RT 3 1,08  RED STATION-STATION LOCATION STAGE (LF  8+40 - 14+35 STH 25, LT & RT 1 1,08  8+40 - 14+35 STH 25, LT & RT 3 1,08  TOTALS = 3,24	TEMPORARY CHANNEL  TEMPORARY CHANNEL  TEMPORARY CHANNEL  SPV.0060.01  LOCATION C-17-0049 TOTAL = 1	SAWING ASPHALT    STATION - STATION
PROJECT NO: 8090-00-73 HWY: 5	TH 25 COUNTY: DUNN	MISCELLANEOUS QUANTITIES	SHEET <b>E</b>

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 8090-00-23

### **MENOMONIE - RIDGELAND**

S FORK LOWER PINE CREEK C-17-0049

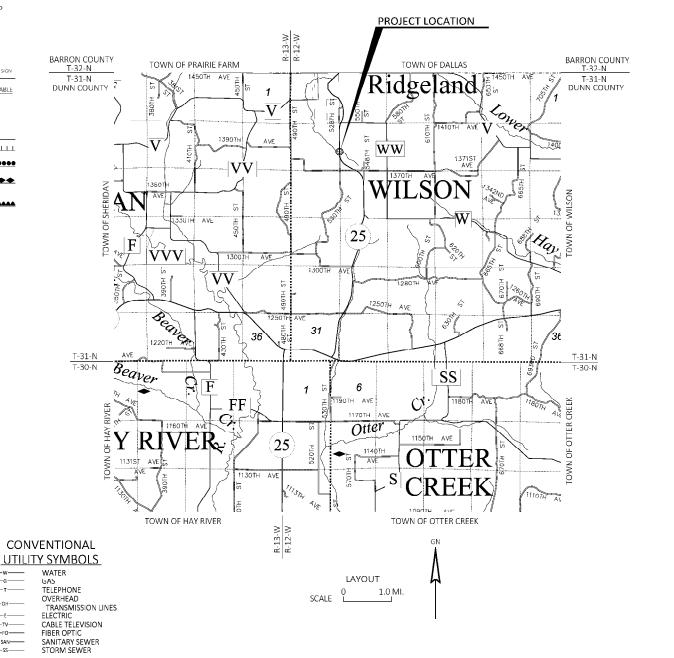
**STH 25 DUNN COUNTY** 

### **CONVENTIONAL SYMBOLS**

			_		
SECTION LINE		SECTION CORNER	23 24	R/W MONUMI (TO BE SET)	ENT •
QUARTER LINE		SYMBOL	26 25	NON-MONUM	ENTED O
SIXTEENTH LINE		SECTION	_	R/W POINT FOUND IRON F	OIN IP
NEW REFERENCE LINE		CORNER MONUMEN	п ⊕	(1-INCH UNLESS	
NEW R/W LINE					_
EXISTING R/W OR HE LINE			SURVEY MONUME		Ø
PROPERTY LINE	PL	SIXTEENTH	CORNER MONUM	1ENT	<b>(A)</b>
LOT, TIE & OTHER MINOR LINES		SIGN	<b>b</b> SIGN	OFF-PREMISE SIGN	#1 25 SIGN
SLOPE INTERCEPT				COMPENSABLE N	ON-COMPENSABLE
CORPORATE LIMITS	111111111	ELECTRIC PO		<u> </u>	<u></u>
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)		PEDESTAL (L (TV, TEL, ELI		×	ø H
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)			TRICTED BY ACOU	ISITION	
TEMPORARY LIMITED FASEMENT AREA			(BY STATUTORY A		•••••••
EASEMENT AREA (PERMANENT LIMITED OR			TRICTED (BY PREV OR CONTROL)	IOUS	****
RESTRICTED DEVELOPMENT)		NO ACCESS /	(NEW HIGHWAY)		****
TRANSMISSION STRUCTURES	— <u>N</u> —————	PARCEL N		UTILITY NUMI	orp (40)
BUILDING TO BE REM	OVED	PARCEL	NUIVIBER (25)	OTILITY NOMI	DEN TO
BRIDGE		PARALLEI	L OFFSETS		

### CONVENTIONAL ARREVIATIONS

CONVENTIONAL ABBREVIATIONS					
ACCESS RIGHTS	AR	POINT OF INTERSECTION	ΡI		
ACRES	AC	PROPERTY LINE	PL		
AHEAD	ΔН	RECORDED AS	(100')		
ALUMINUM	ALUM	REEL / IMAGE	R/I		
AND OTHERS	ET AL	REFERENCE LINE	R/L		
BACK	BK	REMAINING	REM		
BLOCK	BLK	RESTRICTIVE DEVELOPMENT	RDE		
CENTERLINE	C/L	EASEMENT			
CERTIFIED SURVEY MAP	CSM	RIGHT	R⊺		
CONCRETE	CONC	RIGHT OF WAY	R≠₩		
COUNTY	CO	SECTION	SEC		
COUNTY TRUNK HIGHWAY	CTH	SEPTIC VENT	SEPV		
DISTANCE	DISI	SQUARE FEET	S⊦		
CORNER	COR	STATE TRUNK HIGHWAY	STH		
DOCUMENT NUMBER	DOC	STATION	STA		
EASEMENT	EASE	TELEPHONE PEDESTAL	TP		
EXISTING	EX	TEMPORARY LIMITED	TLE		
GAS VALVE	GV	EASEMENT			
GRID NORTH	GN	TRANSPORTATION PROJECT	TPP		
HIGHWAY EASEMENT	HE	PLAT			
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH		
LAND CONTRACT	LC	VOLUME	V		
LEFT	LT				
MONUMENT	MON	CLIDVE DATA			
NATIONAL GEODETIC SURVEY		<u>CURVE DATA</u>			
NUMBER	NO	LONG CHORD LCH			
OUTLOT	OL_	LONG CHORD BEARING LCB			
PAGE	P	RADIUS R			
POINT OF TANGENCY	PT	DEGREE OF CURVE D			



THE NOTES. CONVENTIONAL SYMBOLS. AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 8090-00-23.

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), DUNN COUNTY, NAD83(2011), IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY  $\frac{3}{4}$ " X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TILE) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD

FOR CURRENT ACCESS/DRIVEWAY INFORMATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION

PARCEL AND UTILITY IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE

INFORMATION FOR THE BASIS OF EXISTING HIGHWAY RIGHT-OF-WAY POINTS OF REFERENCE AND ACCESS CONTROL

PROJECT NUMBER 8090-00-23 - 4. 01 SHEET 2 OF 2

AMENDMENT NO:

PLE

PERMANENT LIMITED

POINT OF BEGINNING

POINT OF COMPOUND CURVE

POINT OF CURVATURE

EASEMENT

CENTRAL ANGLE

TANGENT

LENGTH OF CURVE

DIRECTION AHEAD

DIRECTION BACK

△/DELTA

4.01

23

-00-

8090

.. 0 N

PLAT

PROJECT

TRANSPORTATION

PART OF THE NW½-SW½ OF SECTION 8 AND PART OF THE NE½-SE½ OF SECTION 7, ALL IN TOWNSHIP 31 NORTH, RANGE 12 WEST, TOWN OF WILSON, DUNN COUNTY, WISCONSIN.

RELOCATION ORDER STH 25, MENOMONIE - RIDGELAND , S FORK LOWER PINE CREEK C-17-0049, DUNN COUNTY

TO PROFERLY ESTABLISH. LAYOUT, WIDEN, ENLARCE, EXTEND. CONSTRUCT, RECONSTRUCT, IMPROVE, OR MANTAIN A PORTION OF THE HIGHWAY TO RELOCATE OR CHANCE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

RECORDED ON 08/03/2021 02:05

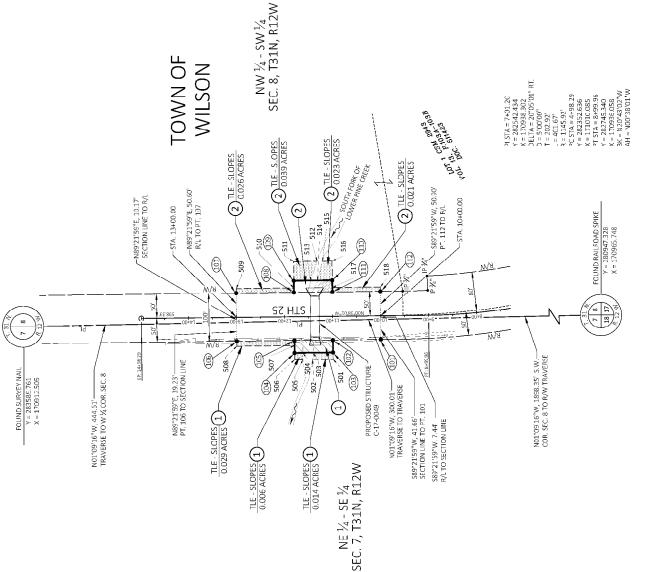
RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 8090-00-23 -4.01 SHEET 1 OF 2 AMENDMENT NO:

1. THAT PORTON OF SAID HIGHWAY AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CIRES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJEC.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF SUBSECTION 84,09 (1), OR (2), WISCONSIN STATUTES. IFIED SURVEY MAP 2943 /ING POINTS OF REFERENCE: FIGHT OF WAY PROJECT T067(3). MATION, CONTACT THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN EAU CLAIRE REIN IS 3ASED ON THE FOLLOV

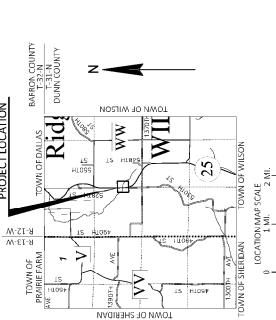
POSITIONS SHOWN ON THIS PLAT ARE W SCONSIN CODDISTANCES MAY BE USEE AS GROUND DISTANCES.

TLE ACRES HE ACRES 0.047 SCHEDULE OF LANDS & INTERESTS REQUIRED INTEREST REQUIRED HE, TLE FLF, HERRMAN, LLC OWNER (S) I REFER TO THE 1

0.109 0.045 HE, TLE JAMES D. LEWIS AND NINA LEWIS, HIS WIFE AS JOINT



DUNN ENERGY COOPERATVE REDITING TO BE A SEMENT TABLE OWNER		£ L			
	REQUIRED	RE_EASE OF RIGH			
201 201 UTILITY	OWNER (S)	DUNN ENERGY COOPERATIVE	UTILITY EASEMENT TABLE	OWNER	THE STOCK WOODING WINDS
	NUMBER	201		UTILITY	



	UTILITY EASEMENT TABLE
UTILITY	OWNER
201	DUNN ENERGY COOPERATIVE DOC. 400819, V.489, <sup>9</sup> .331

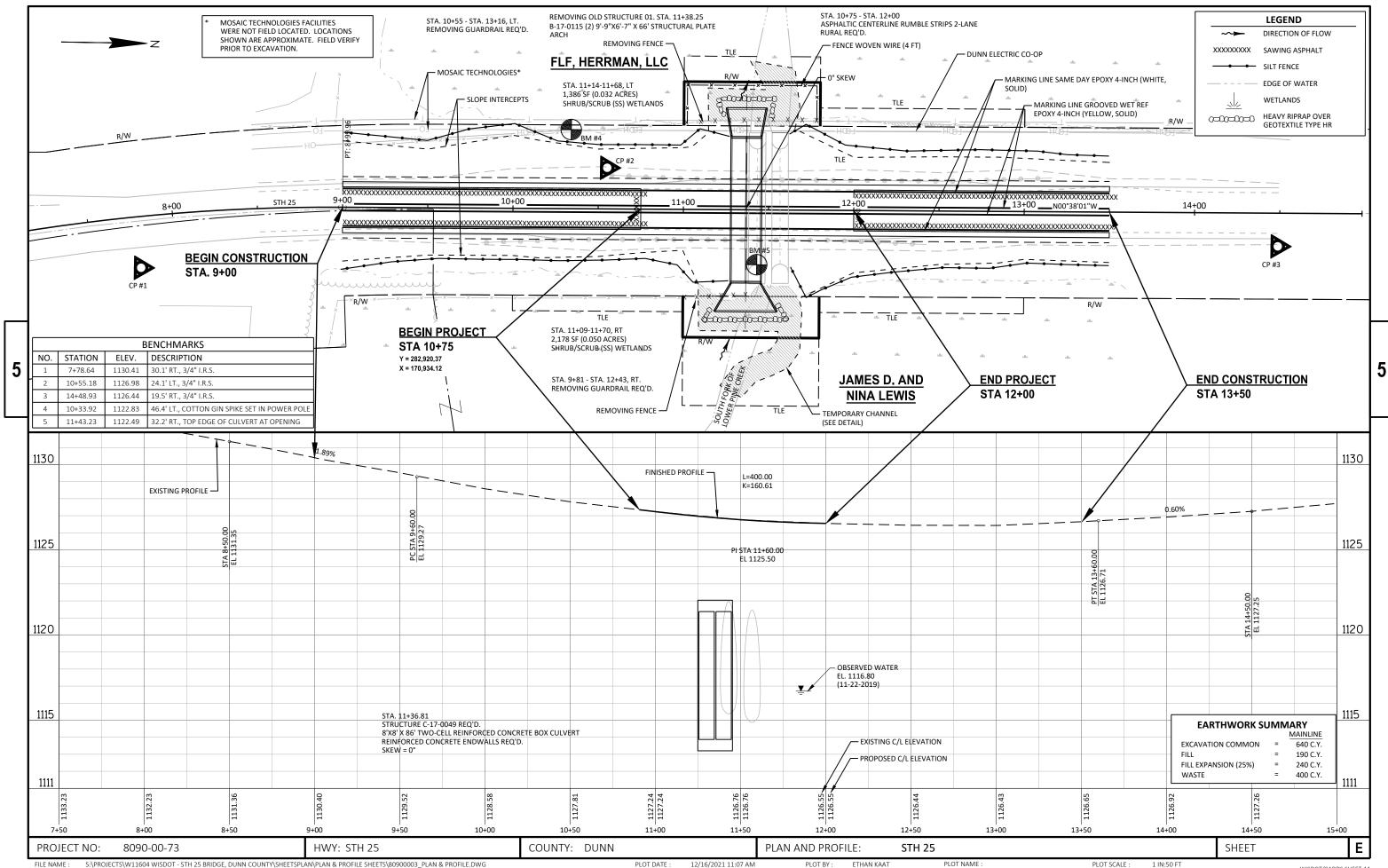
100.00' 25.80' 25.72' 25.72' 120.00' 1120.00' 1120.00' 24.28' 80.00' 24.20' 49.20 LT. 75.00 LT. 75.00 LT. 49.28 LT. 49.40 LT. 50.60 RT. 75.00 RT. 75.00 RT. 75.00 RT. 8888888888 70 PT. 70 103 70 103 70 104 70 105 70 106 70 108 70 109 70 109 70 109 70 109 70 110 102 102 103 104 105 106 107 108 109 111 PT. 101 102 103 104 105 106 107 108 109 110

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10+00 00	
518	Æ

IND RELOCATION ORDER ARE AR MENT OF TRANSPORTATION CLIRCATURE of BIEST SIGNATURE: When the prince of the print name: Wesley L Kraemer REGISTRATION NUMBER: 5-3026 THIS PLAT AND R THE DEPARTMENT

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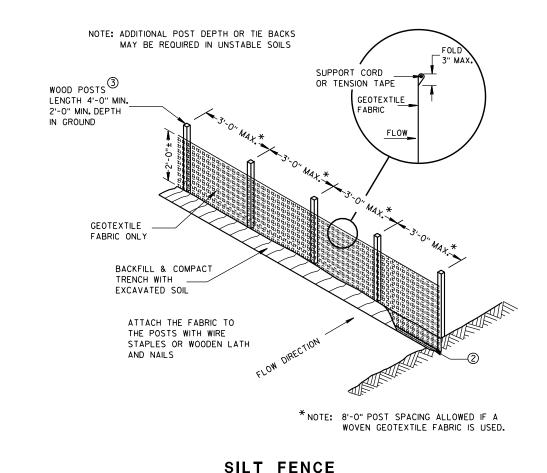
DATE:

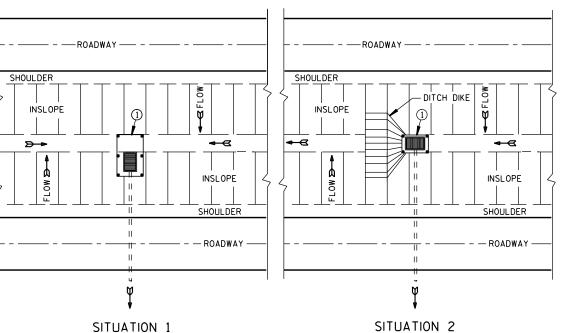


### Standard Detail Drawing List

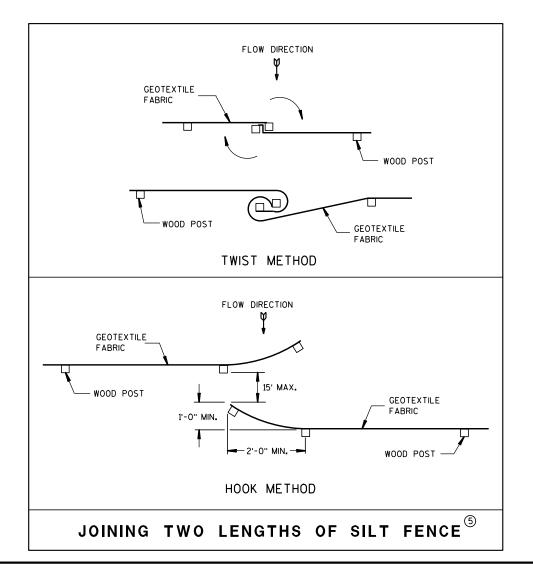
08E09-06	SILT FENCE
08F06-04	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
09G02-05A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-05C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
12A03-10	NAME PLATE (STRUCTURES)
13A11-03A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-03B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13C19-03	HMA LONGITUDINAL JOINTS
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRI ER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B01-08A	FENCE WOVEN WIRE
15B01-08B	FENCE WOVEN WIRE
15B03-15A	FENCE CHAIN LINK
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C11-09A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-08	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D33-06	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

### TYPICAL APPLICATION OF SILT FENCE





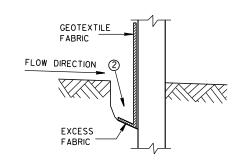
### PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



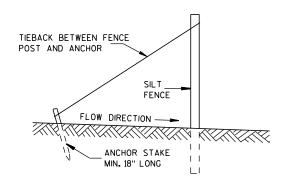
### **GENERAL NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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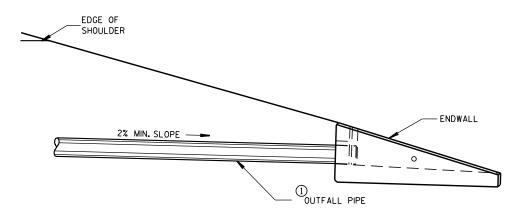
\*\* APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)

6

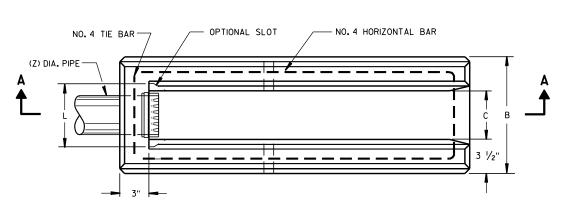
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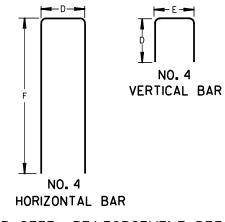
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INSTALLATION DETAIL



PLAN VIEW





NO. 4 VERTICAL BAR

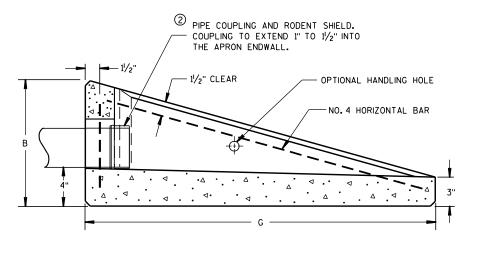
(C) DIA HOLF

FOR DRAIN PIPE

\_€ HOLE FOR DRAIN PIPE

END VIEW

HORIZONTAL BAR



SECTION A-A

CONCRETE APRON ENDWALL FOR UNDERDRAIN

# GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

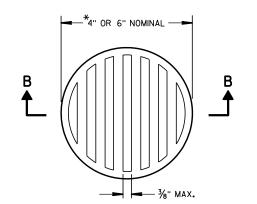
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

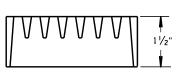
(1) THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

(2) THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER, A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL



NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



SECTION B-B

<sup>2</sup> RODENT SHIELD

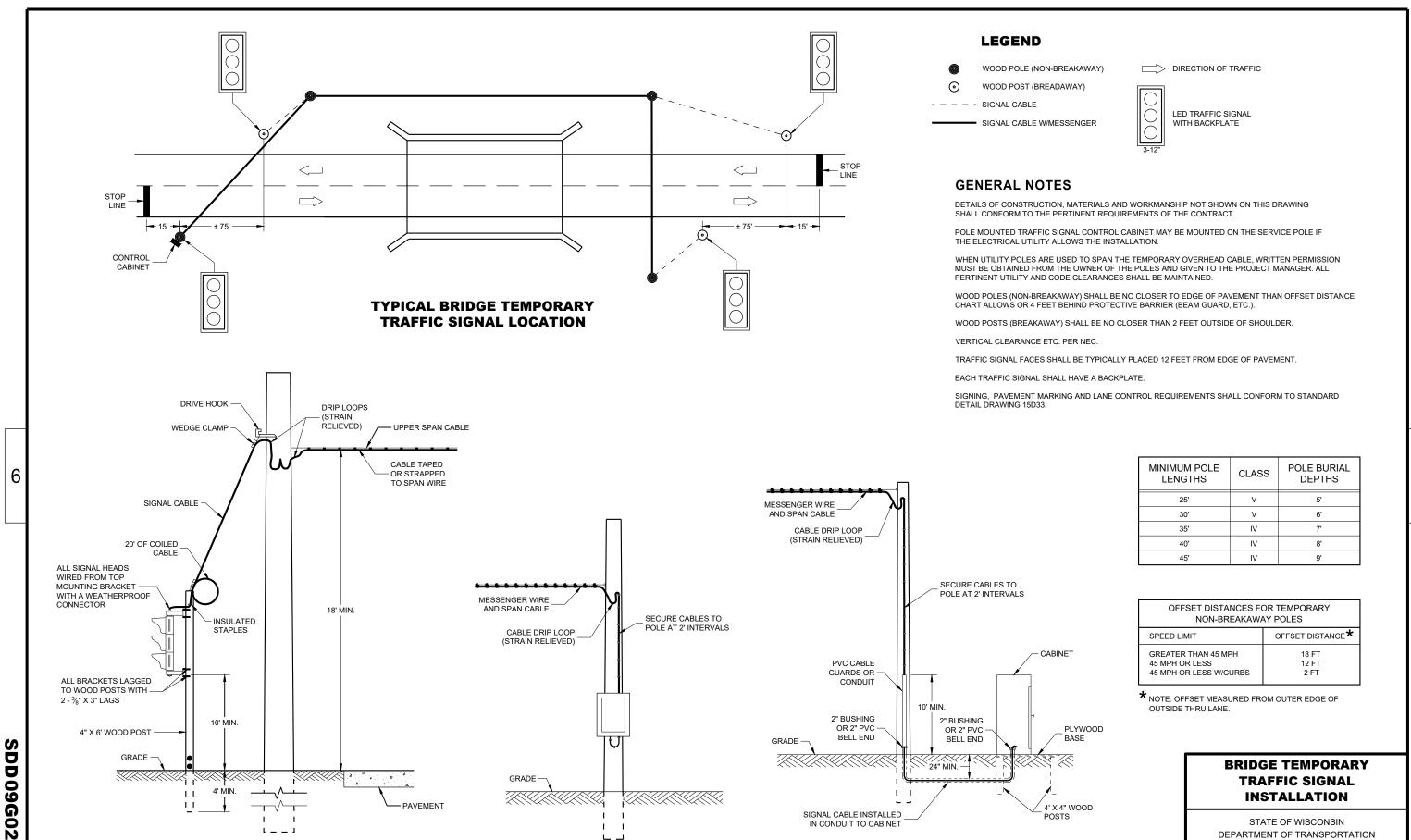
\*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

### REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 3/10/98 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

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**POLE MOUNT** 

**CABINET INSTALLATION** 

SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

**GROUND MOUNT** 

**CABINET INSTALLATION** 

GRADE

- PAVEMENT

4' MIN.

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**TYPICAL DROP TO** 

TRAFFIC SIGNAL FACE

0 0 60 

TRAFFIC SIGNAL

**INSTALLATION** 

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

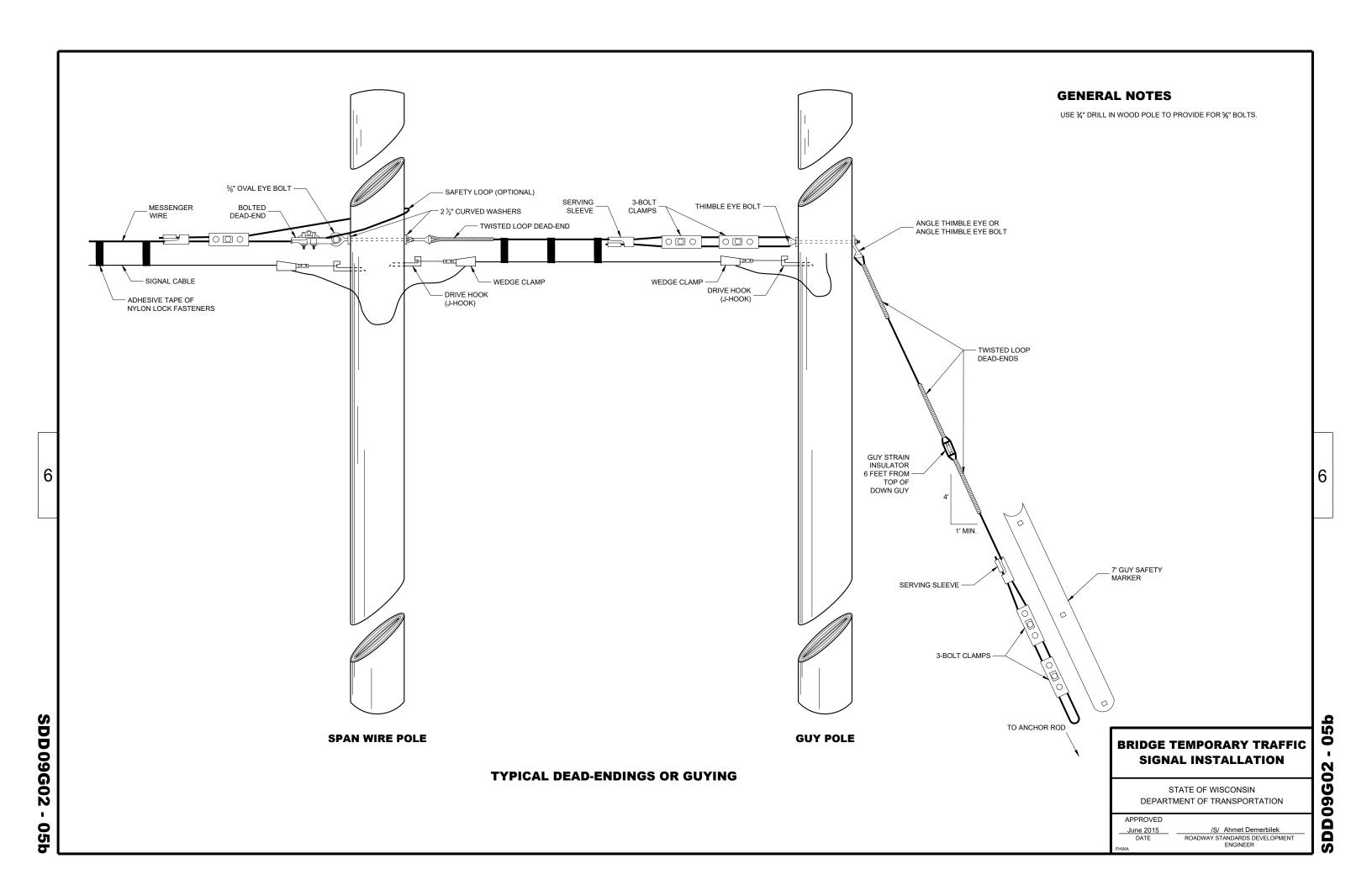
ROADWAY STANDARDS DEVELOPMENT ENGINEER

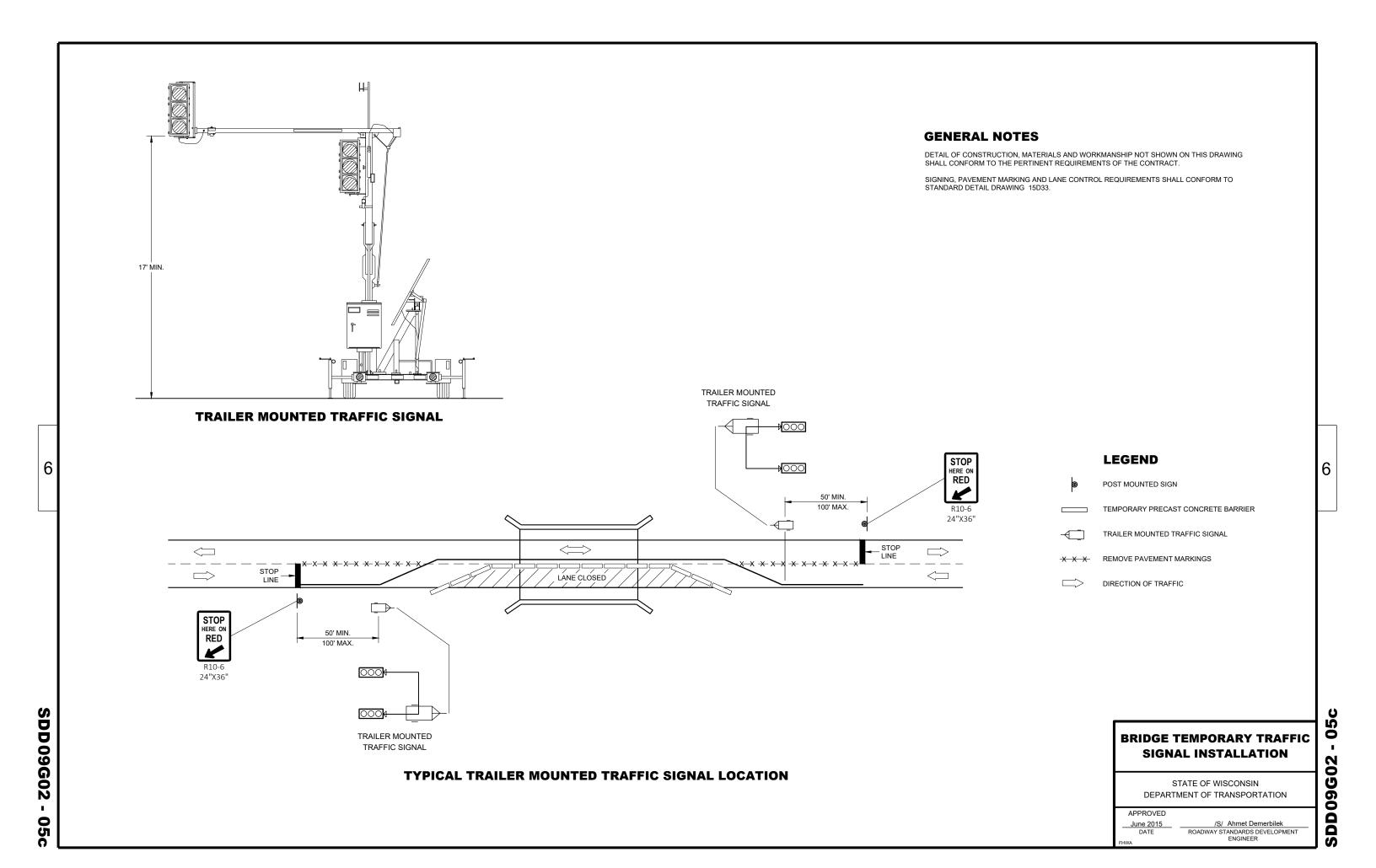
APPROVED

March 2018

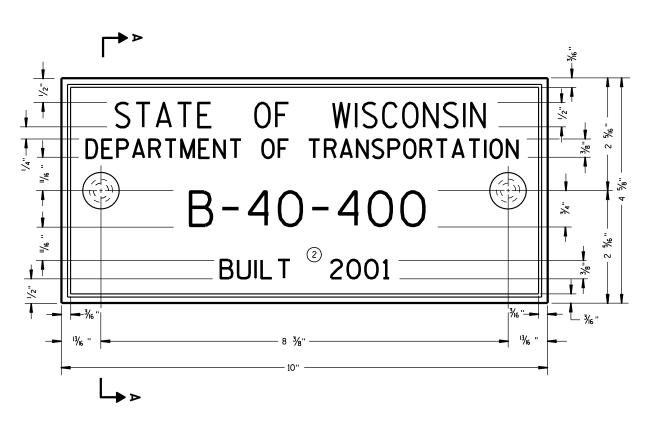
DATE

4' X 4" WOOD



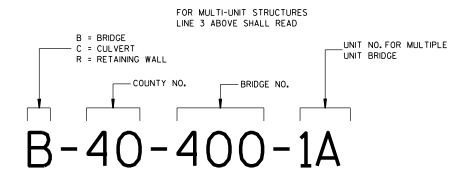






### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



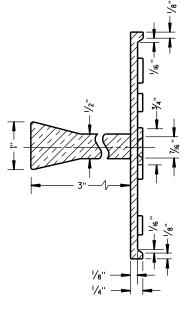
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

### **GENERAL NOTES**

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

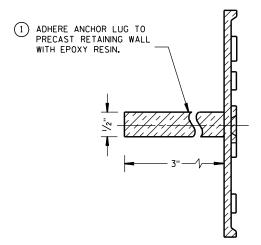
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE
TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

## NAME PLATE (STRUCTURES)

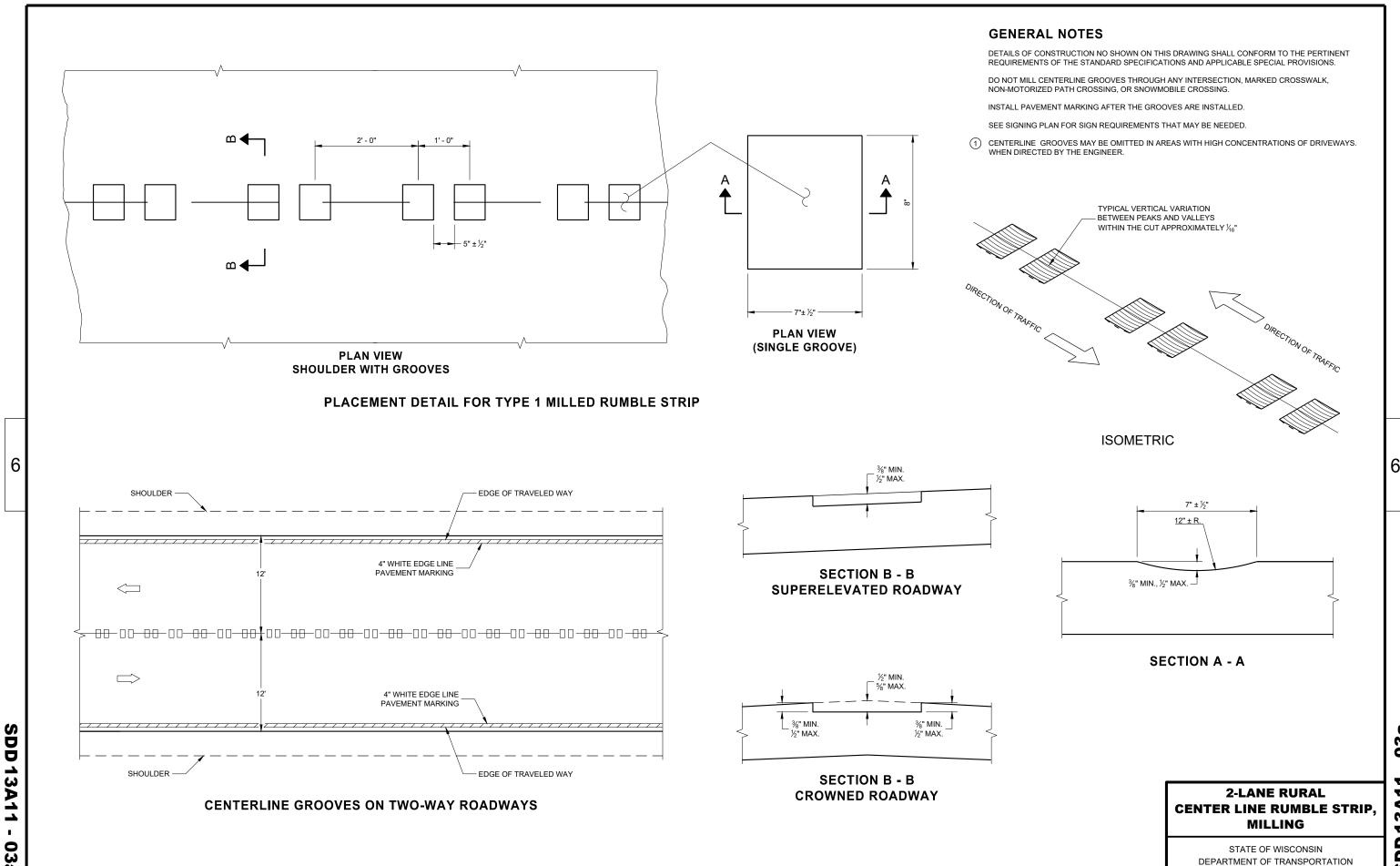
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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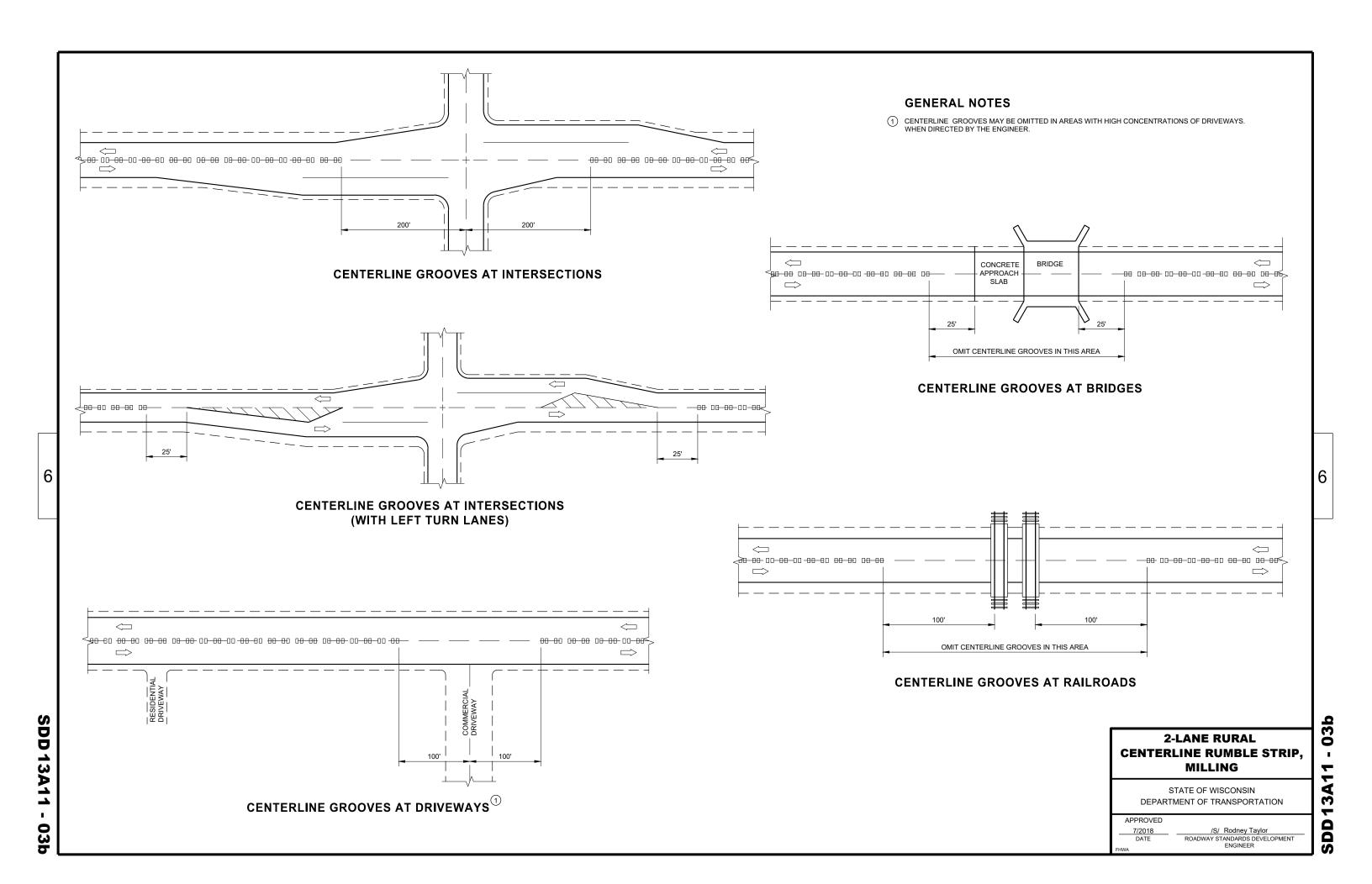
APPROVED

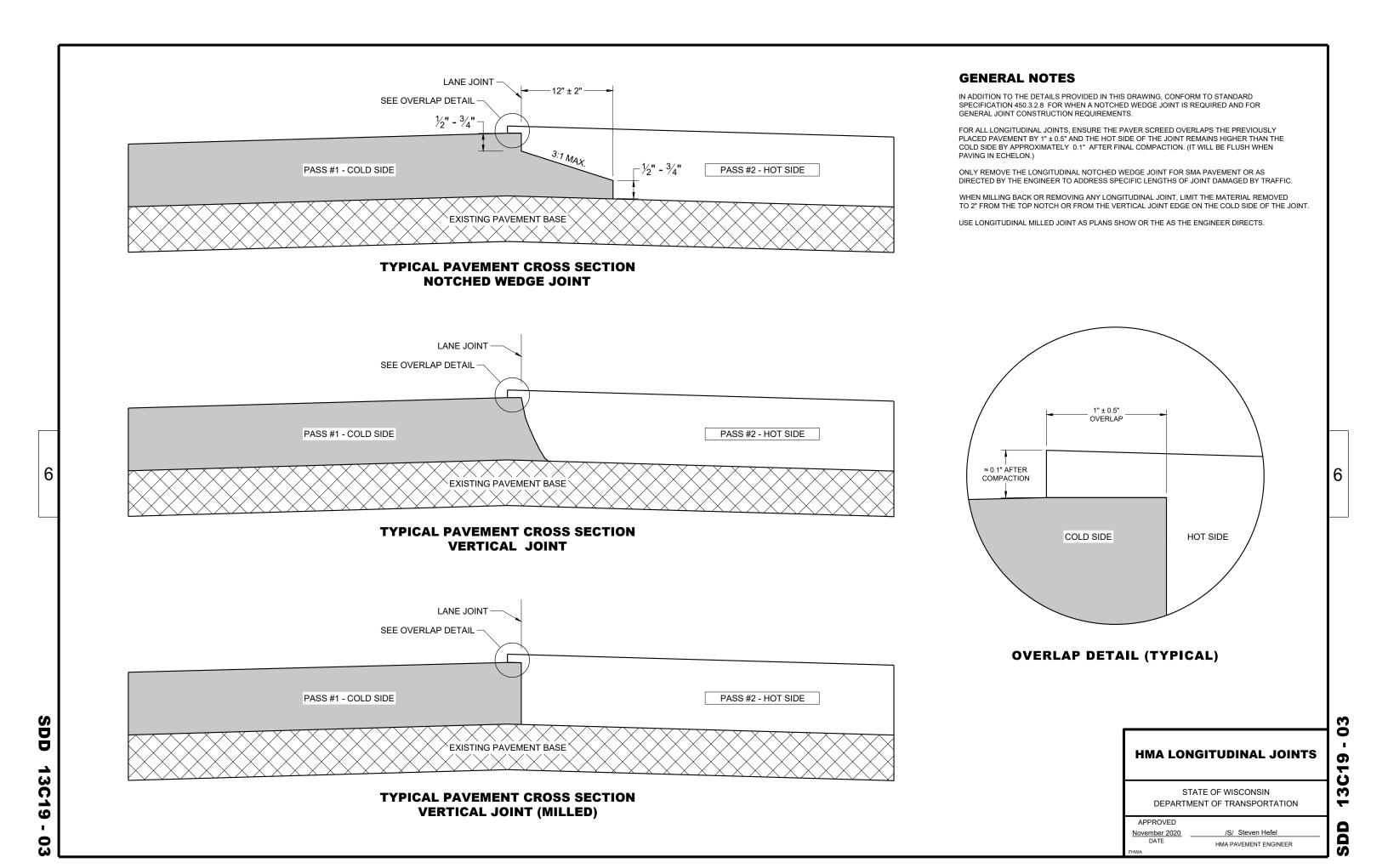
3/26/IO /S/ SCOT BECKET

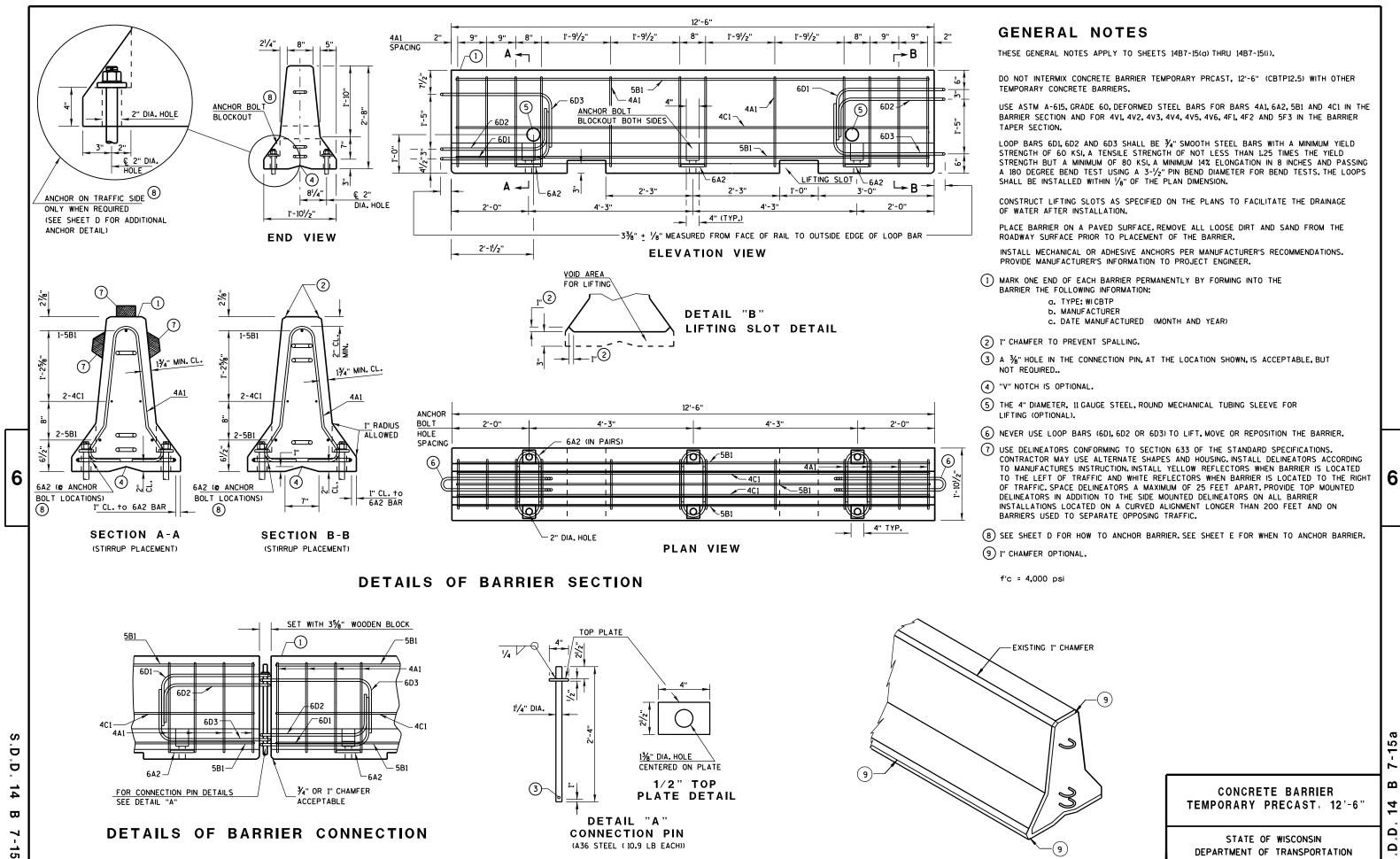
CHIEF STRUCTURAL DEVELOPMENT ENGINEER



SDD

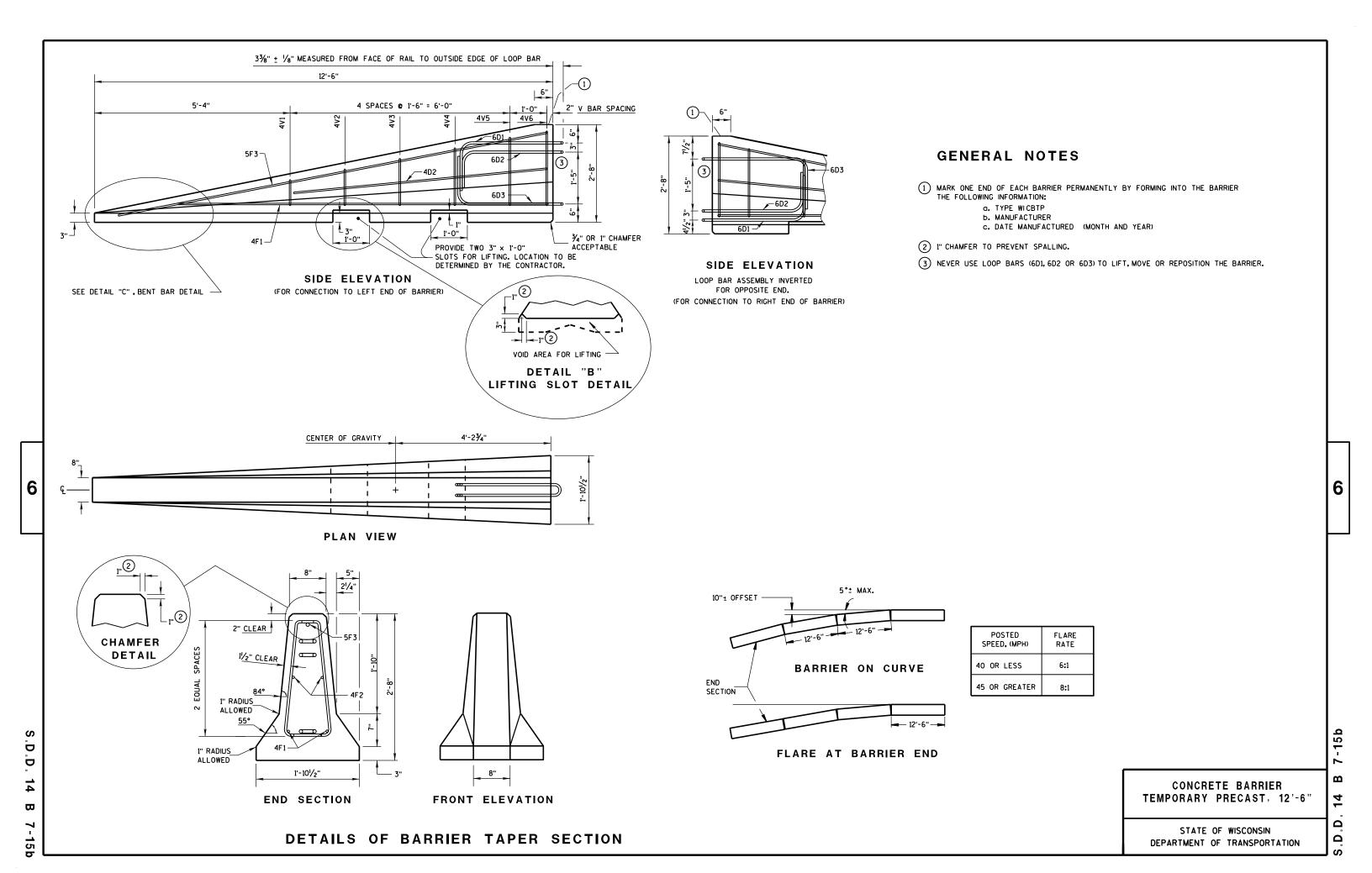






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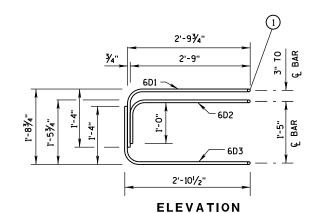
DEPARTMENT OF TRANSPORTATION

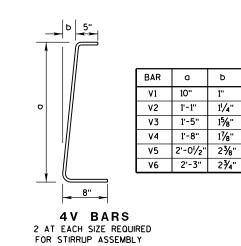


### BARRIER TAPER SECTION BILL OF MATERIALS

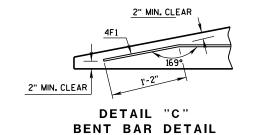
(PER 12'-6" BARRIER TAPER SECTION)

WENTE O BANNEN TALEN SECTION					
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.		
4V1	4	2	1'-11"		
4V2	4	2	2'-2"		
4٧3	4	2	2'-6"		
4V4	4	2	2'-9"		
4V5	4	2	3'-2"		
4V6	4	2	3'-4"		
4F1	4	2	12'-0"		
4F2	4	2	7'-6"		
5F3	5	1	11'-9"		
LOOP ASSEMBLY					
6D1	6	1	8'-5"		
6D2	6	1	7'-7"		
6D3	6	1	8'-6"		
· · · · · · · · · · · · · · · · · · ·	•	·	•		





LOOP BAR ASSEMBLY

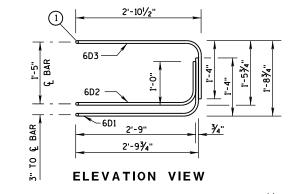




### BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

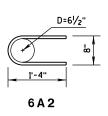
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.		
4A1 4		12	6'-0"		
6A2	6	6	2'-11"		
5B1	5	3	12'-2"		
4C1	4	2	12'-2"		
LOOP ASSEMBLY					
6D1	6	2	8'-5"		
6D2	6	2	7'-7"		
6D3	6	2	8'-6"		

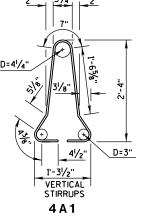




**PLAN VIEW** LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





### **BARRIER SECTION**

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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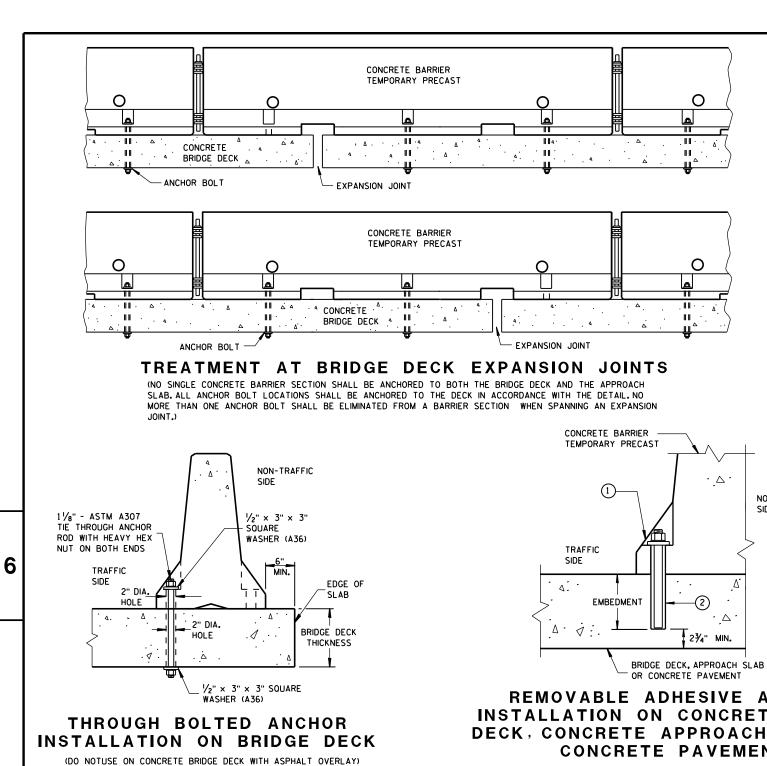
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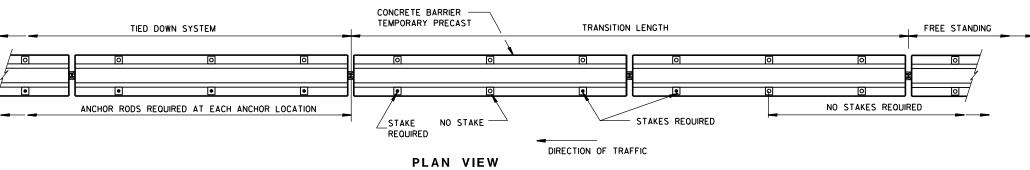
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### REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

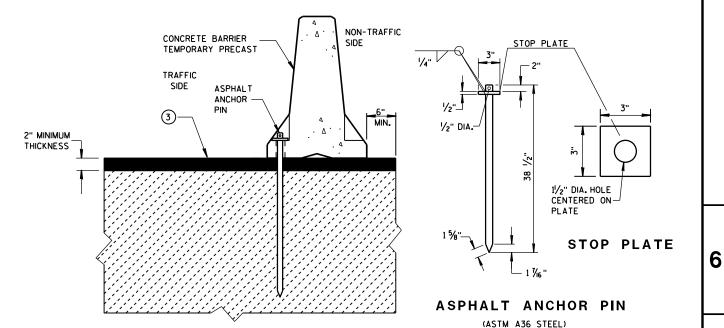
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

### GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

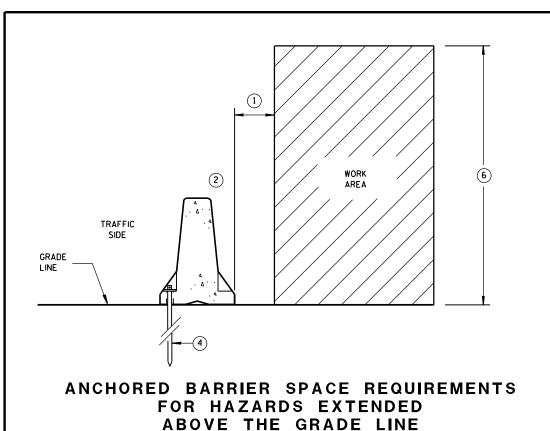
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.

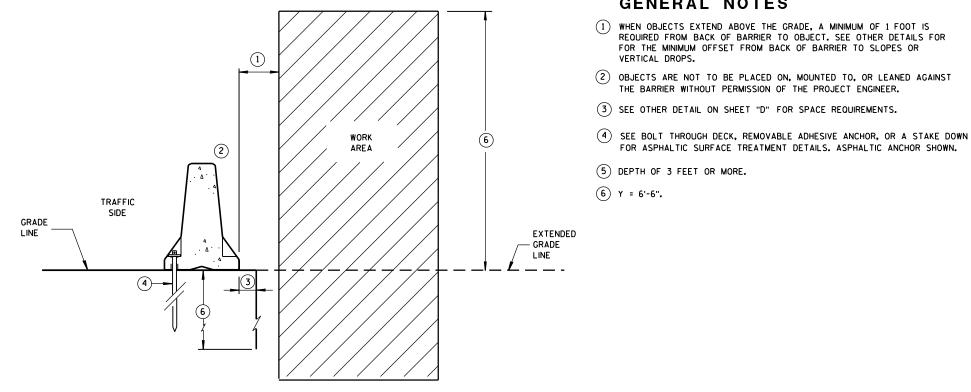


STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE** 

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

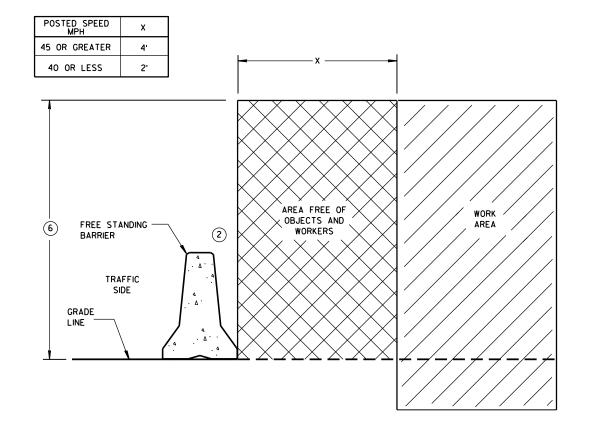
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d  $\mathbf{\omega}$ Ω



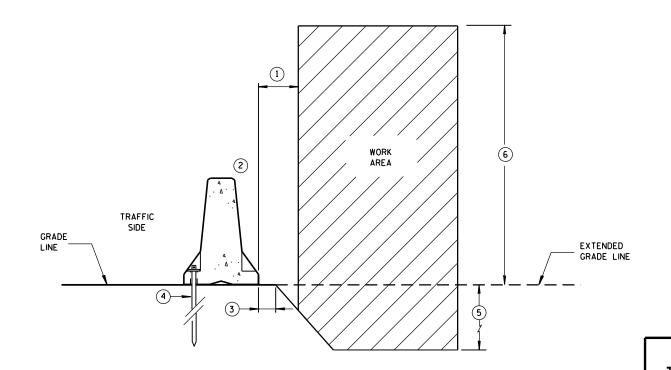


ANCHORED BARRIER SPACE REQUIREMENTS

ON VERTICAL DROP OFFS



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

**CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

**GENERAL NOTES** 

FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR

FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.

THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

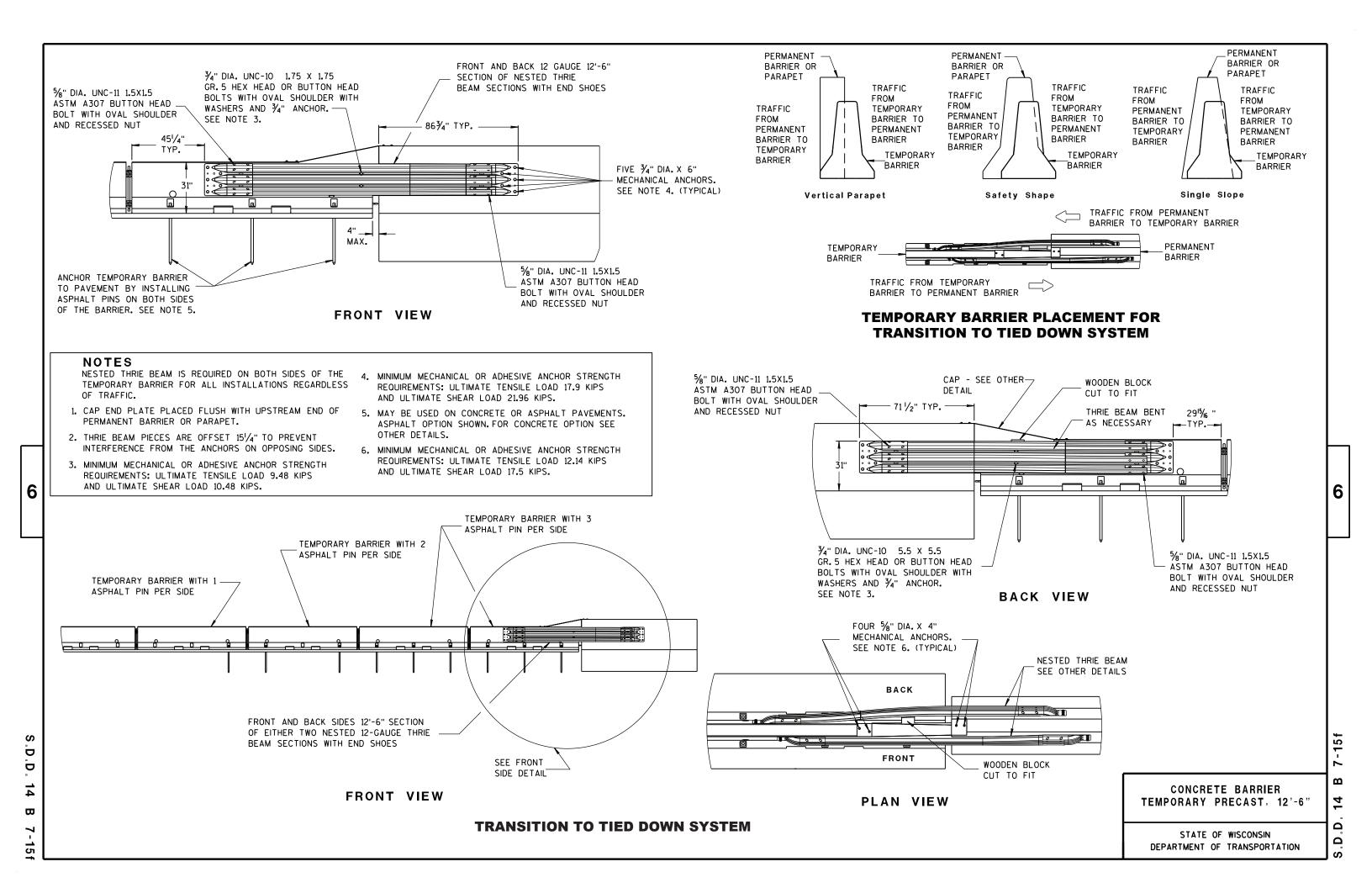
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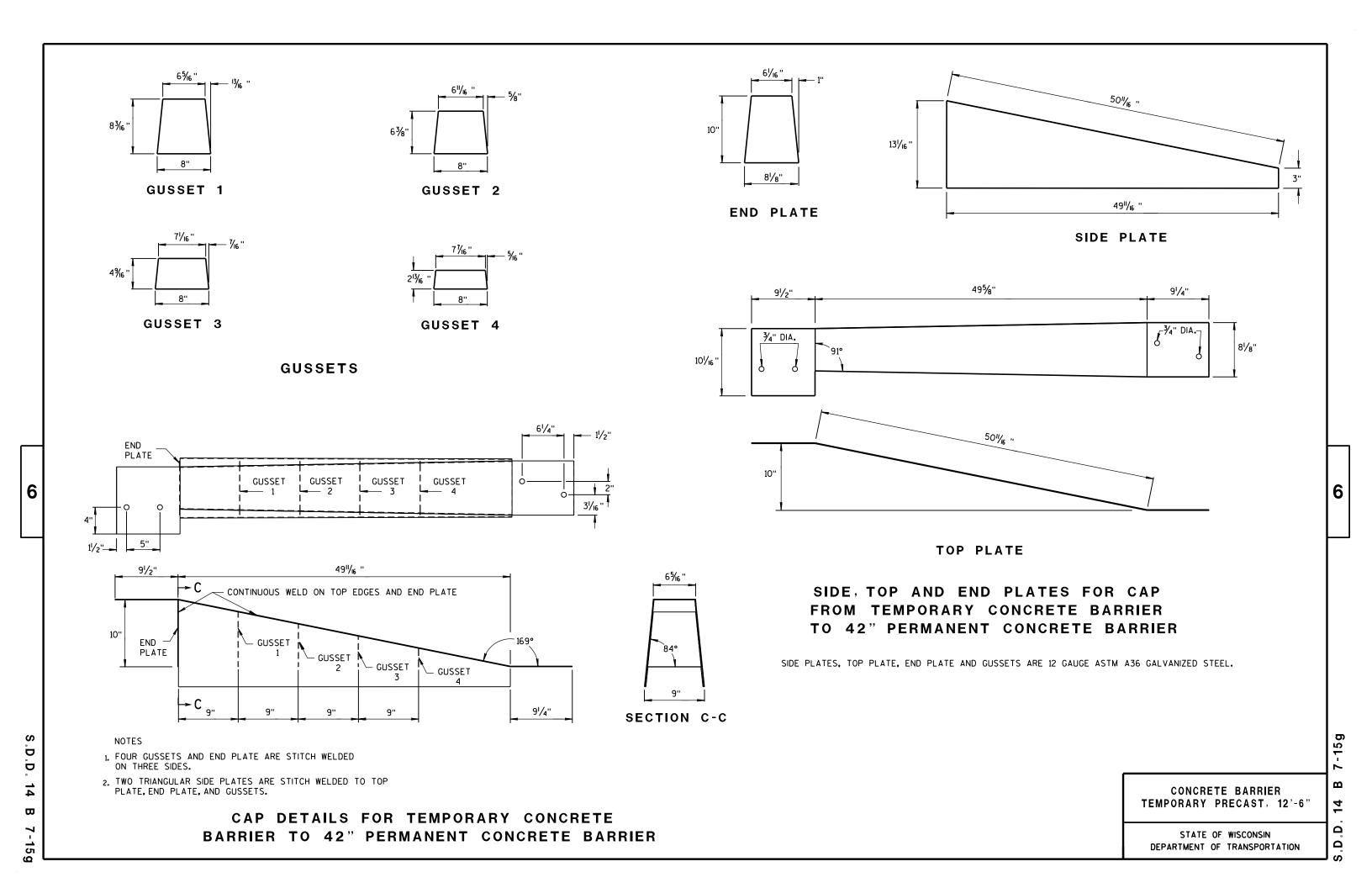
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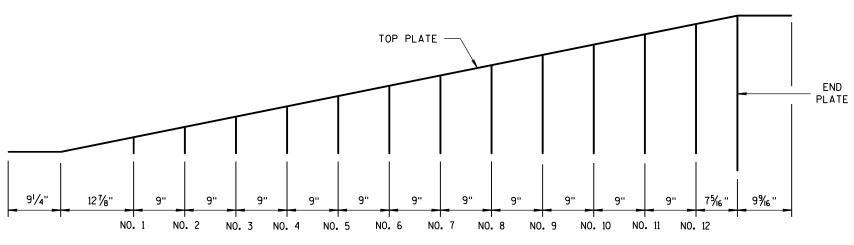




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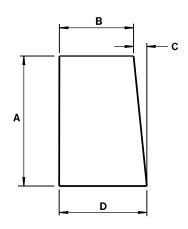
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**GUSSET LOCATION** 

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



**GUSSETS 1 - 12** 

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS						
GUSSET NO.	Α	В	С	D		
1	21/8"	73/4"	1/4"	8		
2	4"/16 "	7% "	1/2"	8		
3	61/2"	73/8"	11/16 "	81/16"		
4	85/6"	73//6"	7⁄8"	81/16 "		
5	101/8"	7"	1 ½ <sub>6</sub> "	81/16"		
6	11 <sup>15</sup> / <sub>16</sub> ''	6 <sup>13</sup> / <sub>16</sub> "	1 1/4"	81/16"		
7	13¾"	65%"	1 7/6"	81/16"		
8	15% "	6¾6"	1 % "	81/16"		
9	173/8"	61/4"	1 <sup>13</sup> / <sub>16</sub> ''	8½ <sub>6</sub> "		
10	193/6"	6½ <sub>6</sub> "	1 15/16 "	81/16"		
11	21"	57/8"	23/6"	81/16"		
12	22 <sup>13</sup> / <sub>16</sub> "	5 <sup>11</sup> / <sub>16</sub> "	25/6"	8½ <sub>6</sub> "		

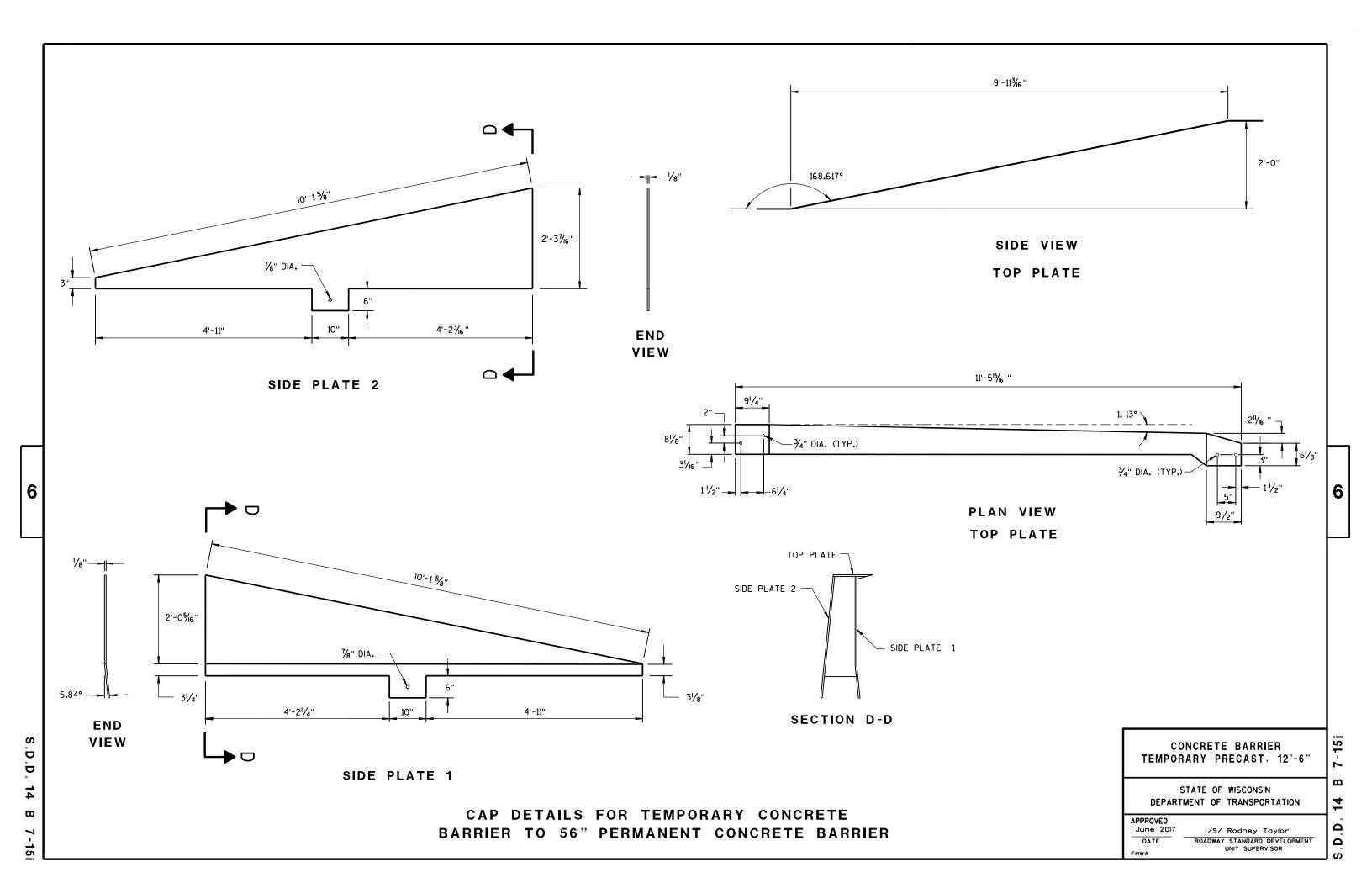
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

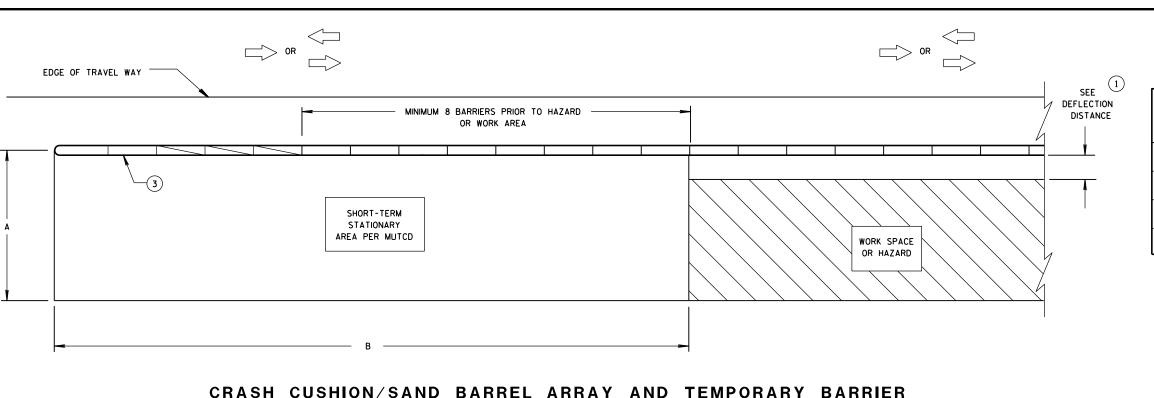
GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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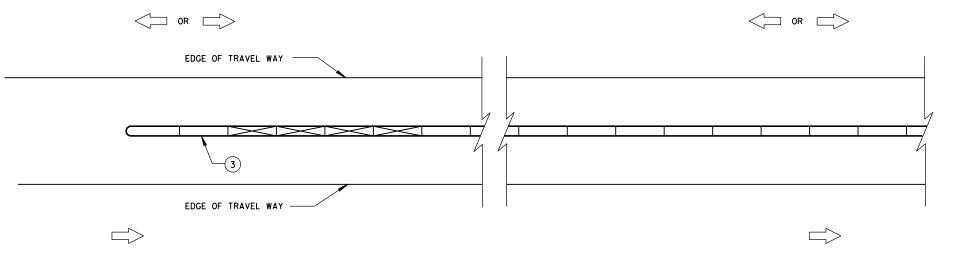
## DIMENSION A TABLE (2)

		DIMENSION A		
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT	
FREEWAY/EXPRESSWAY	ALL	15	20	
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EOUAL TO 45	10	15	
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10	
AADT LESS THAN 1,500	ALL	8	10	

## DIMENSION B TABLE (2)

POSTED SPEEDS	DIMENSION B
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
-	

## CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIEF INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER



## CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

#### **GENERAL NOTES**

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SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

- 1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.
- 2 VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.
- (3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

# CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
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LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION
TO TIED-DOWN SYSTEM DETAILS

PERMANENT CONCRETE BARRIER

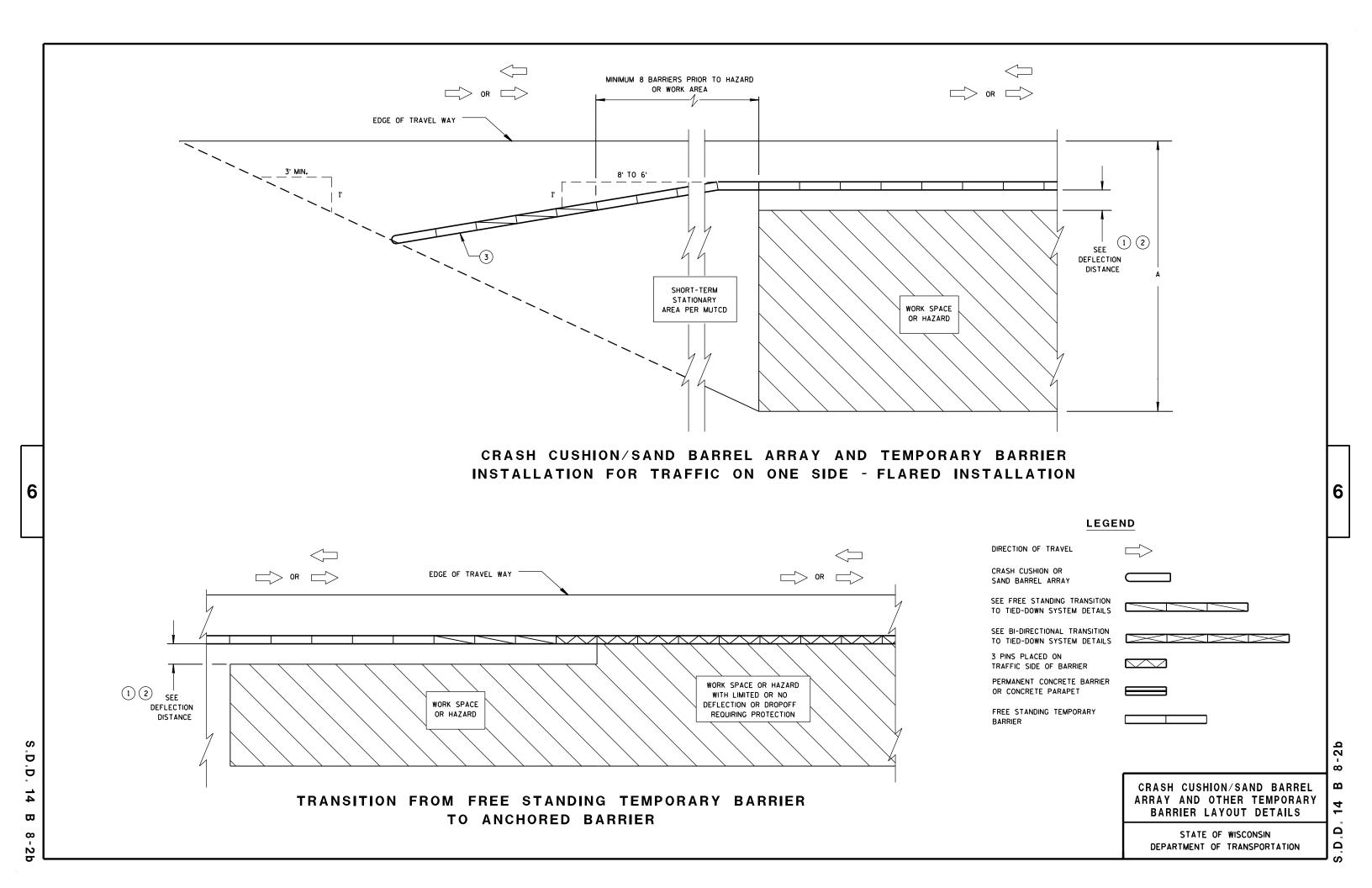
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

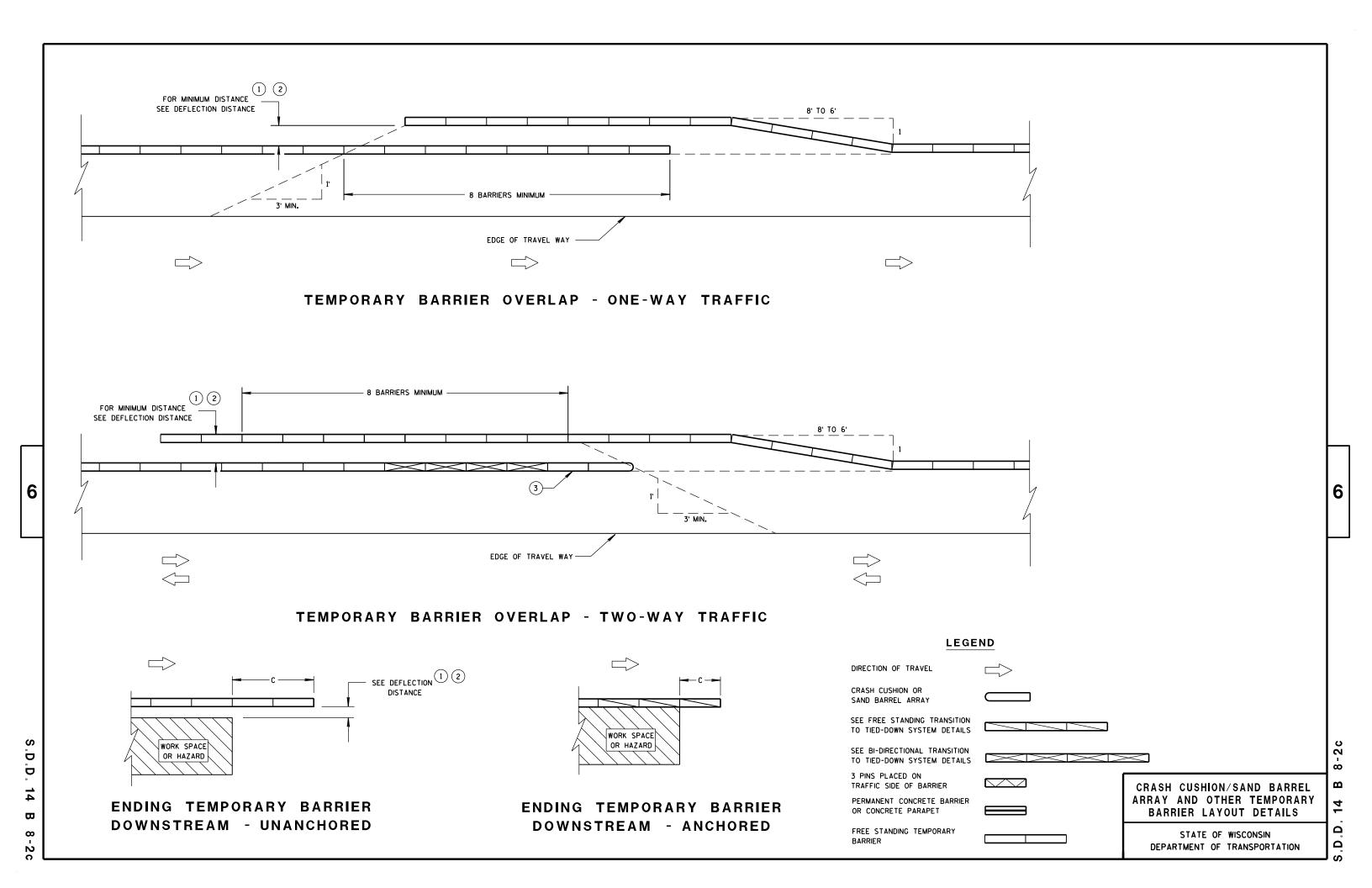
OR CONCRETE PARAPET

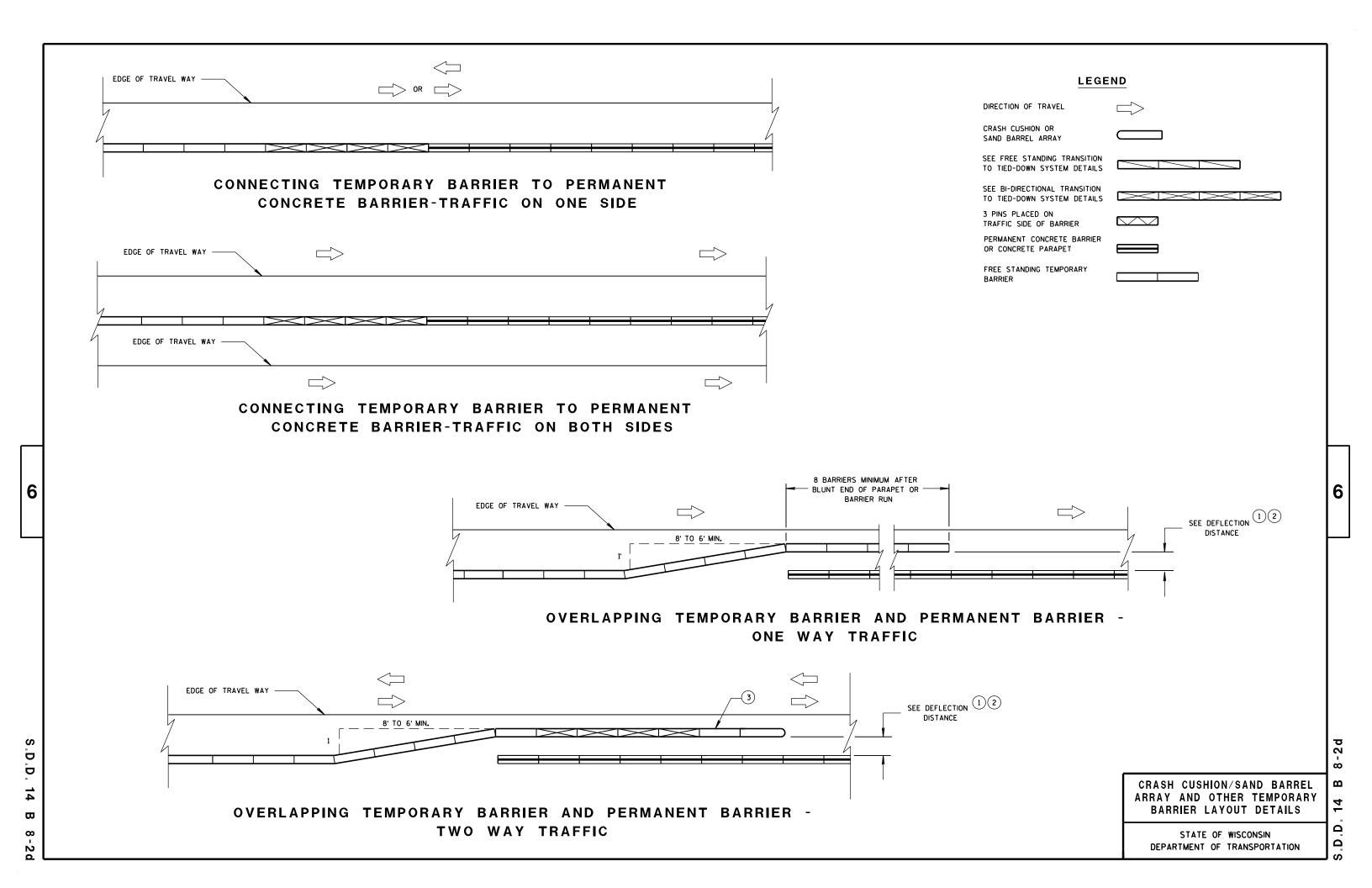
FREE STANDING TEMPORARY BARRIER

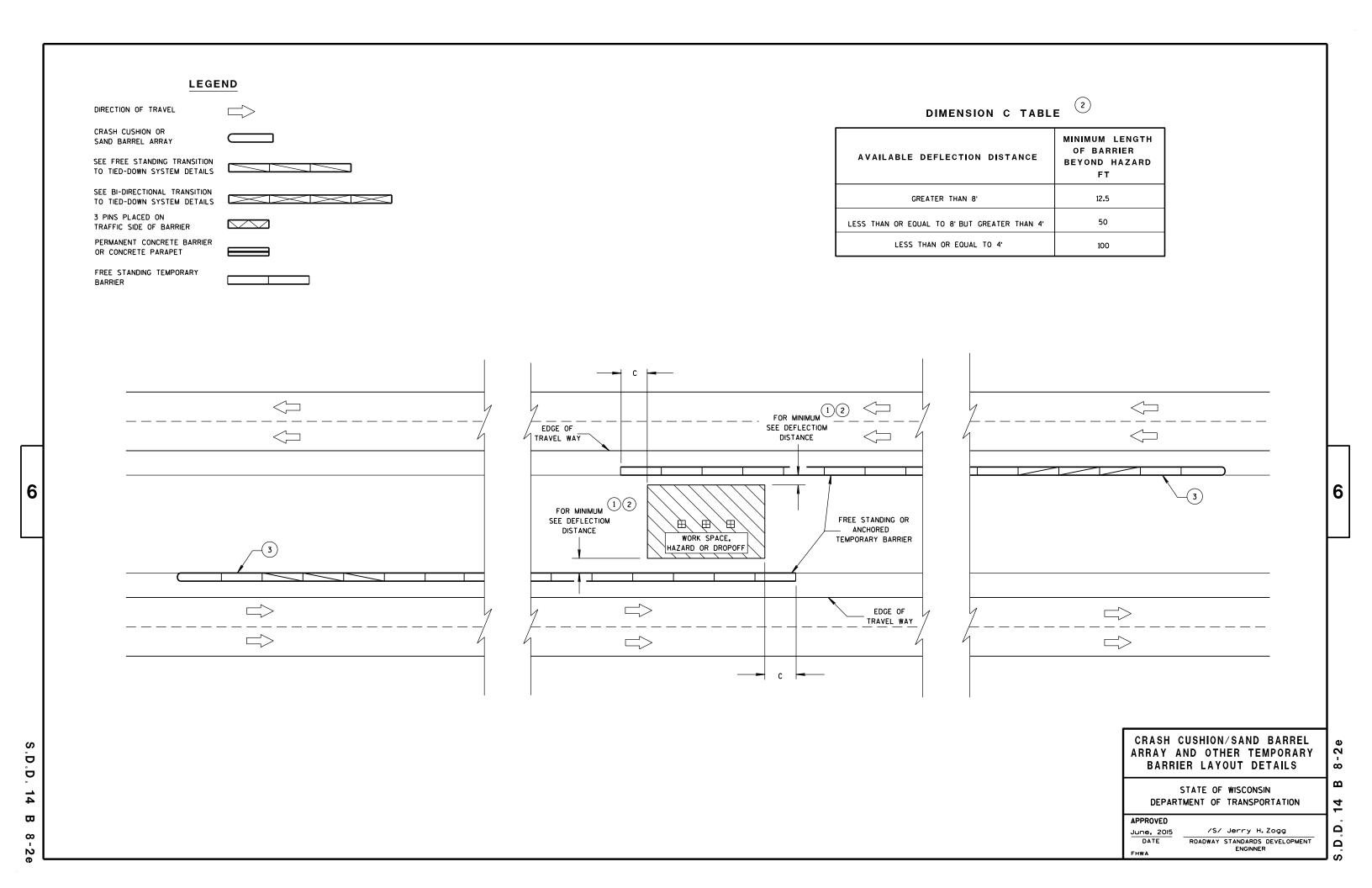
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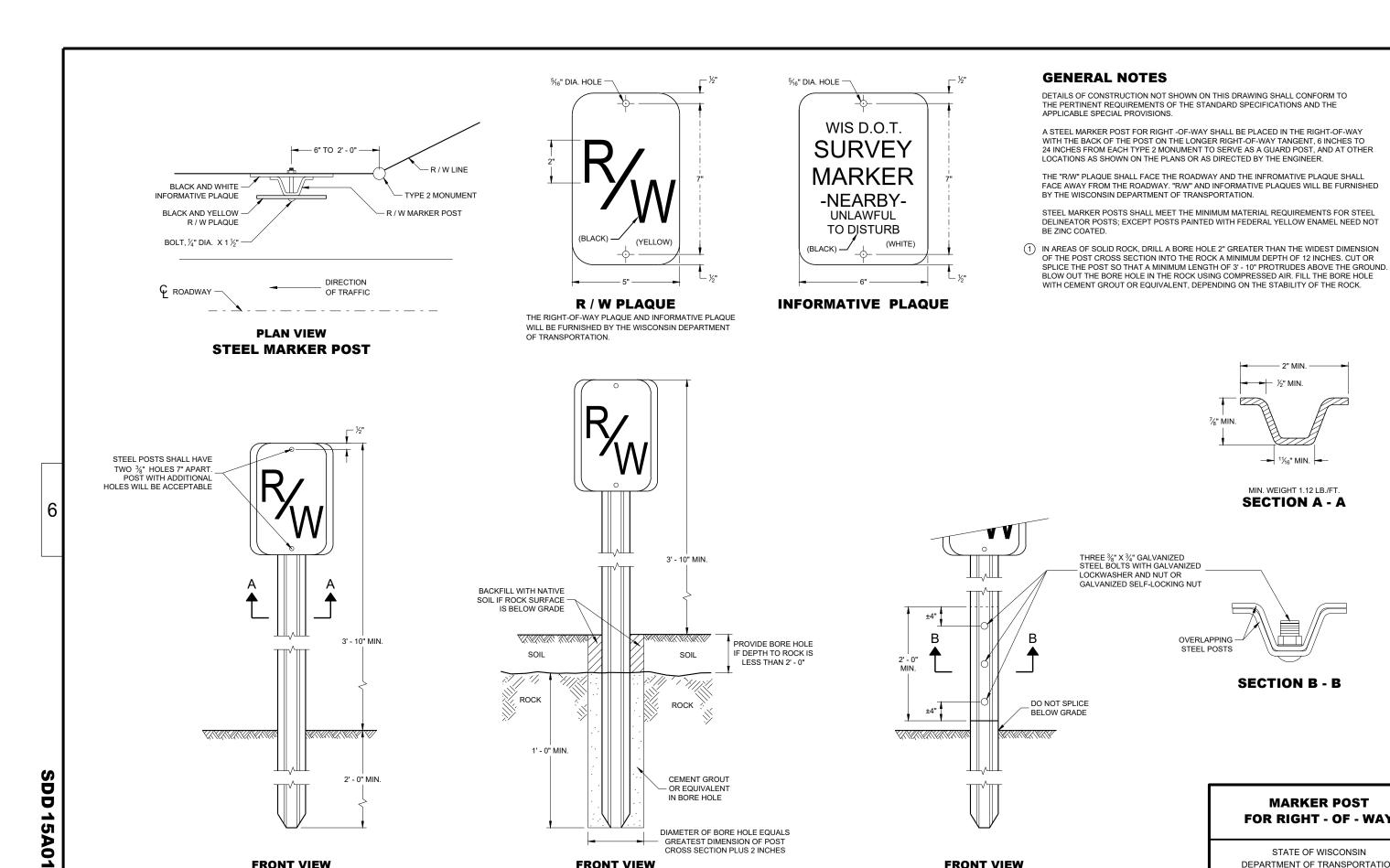
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IN BORE HOLE

**FRONT VIEW** 

ROCK INSTALLATION 1

**FRONT VIEW** 

STEEL MARKER POST

DIAMETER OF BORE HOLE EQUALS

- GREATEST DIMENSION OF POST

CROSS SECTION PLUS 2 INCHES

**FRONT VIEW** 

**SPLICE DETAIL** 

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**MARKER POST FOR RIGHT - OF - WAY** 

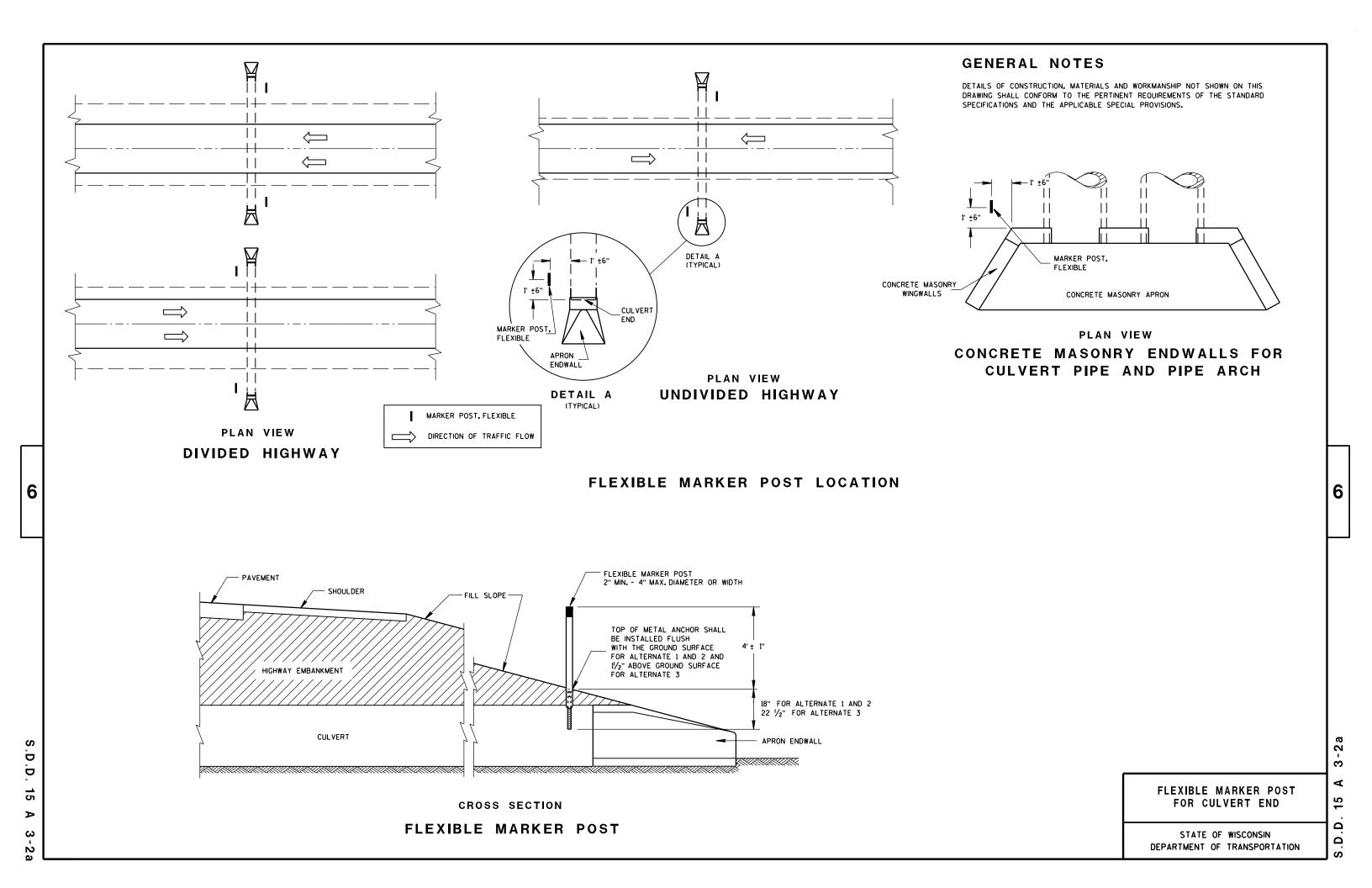
STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Ray Kumapayi
CHIEF SURVEYING AND MAPPING
ENGINEER

APPROVED

2/18/2016 DATE



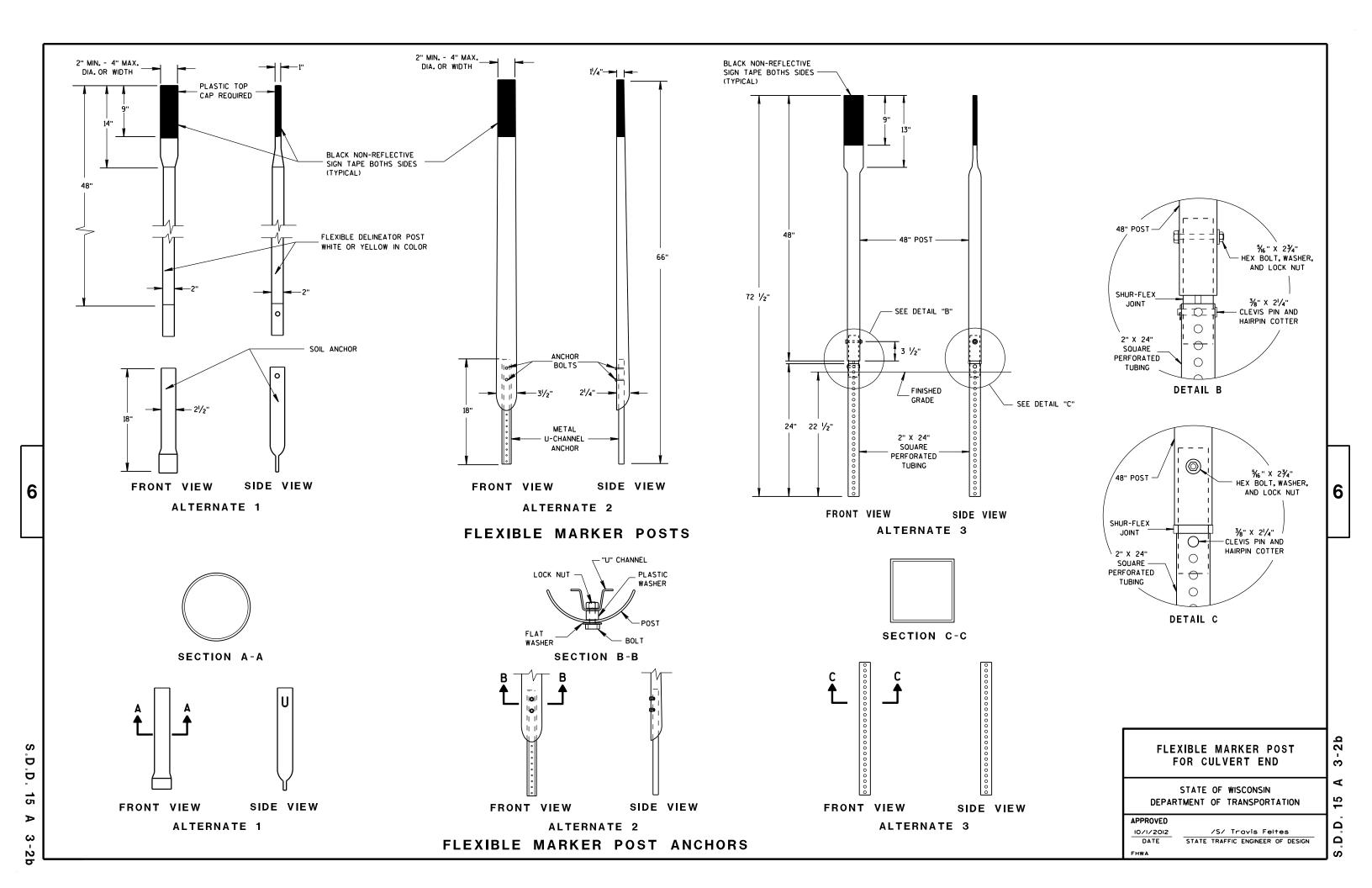
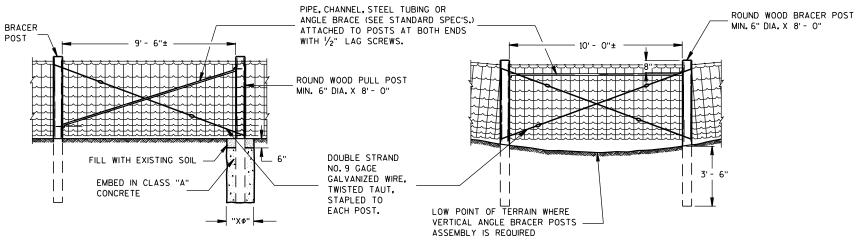
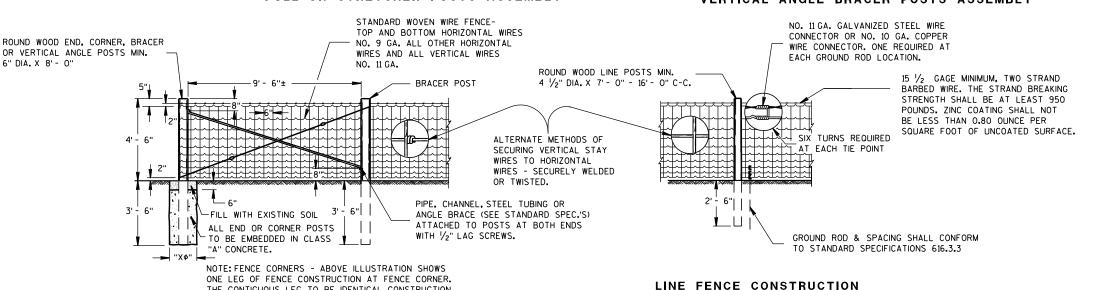


ILLUSTRATION SHOWS POSITION OF STANDARD STEEL BRACE, DOUBLE STRAND GALVANIZED WIRE, AND THE POST TO BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM LEFT TO RIGHT. THE BRACES SHALL BE POSITIONED ON THE OPPOSITE DIAGONALS AND THE OPPOSITE POST SHALL BE EMBEDDED IN CONCRETE WHEN WIRE FENCE IS INSTALLED FROM RIGHT TO LEFT.



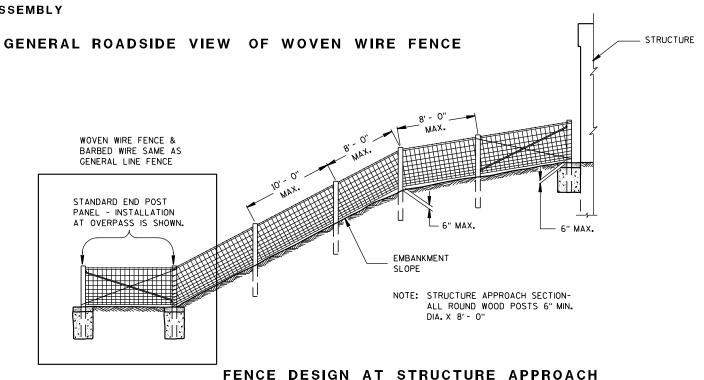
#### **PULL OR STRETCHER POSTS ASSEMBLY**

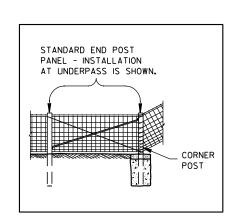
#### VERTICAL ANGLE BRACER POSTS ASSEMBLY



#### END OR CORNER POSTS ASSEMBLY

THE CONTIGUOUS LEG TO BE IDENTICAL CONSTRUCTION.





ALTERNATE FENCE DESIGN AT STRUCTURE

**GENERAL NOTES** 

"X $\phi$ " = DIAMETER OF THE POST PLUS 12".

FENCE STAPLES SHOULD NEVER BE DRIVEN VER-TICALLY INTO WOOD POSTS (WITH BOTH LEGS PARALLEL WITH THE WOOD GRAIN). DOING SO CAN SEPARATE THE GRAIN AND SIGNIFICANTLY REDUCE THE HOLDING POWER. ROTATING THE STAPLES SLIGHTLY OFF VERTICAL STRADDLES THE GRAIN AND PROVIDES MORE RESISTANCE TO PULL-OUT.

DO NOT STAPLE WIRE TIGHT TO THE LINE POSTS. ALLOW MOVEMENT OF WIRE FOR EX-PANSION AND CONTRACTION. STAPLE AR-RANGEMENT SHALL BE THE SAME FOR ALL OTHER POSTS EXCEPT THAT THEY SHALL BE DRIVEN TIGHT TO POSTS. ALL STAPLES SHALL BE 2" X 9 GAGE AND SHALL BE MAN-LIFACTURED FROM GALVANIZED WIRE OR HOT DIP GALVANIZED AFTER FORMING. STAPLES SHALL HAVE SLASH-CUT POINTS.

FENCE SHALL BE LOCATED 3'-0" INSIDE THE RIGHT OF WAY LINE UNLESS OTHERWISE INDICATED ON THE PLANS.

FENCE WOVEN WIRE

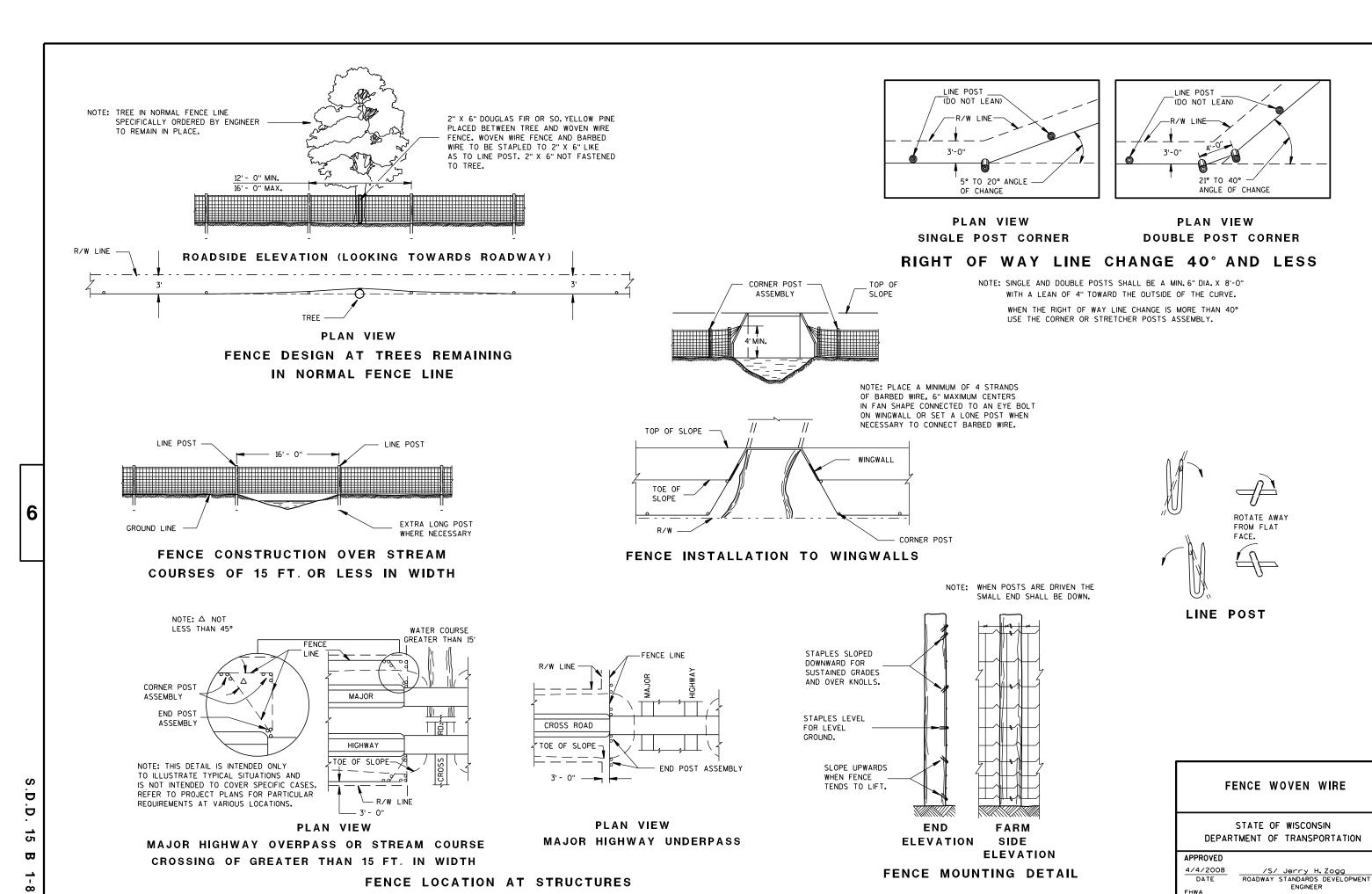
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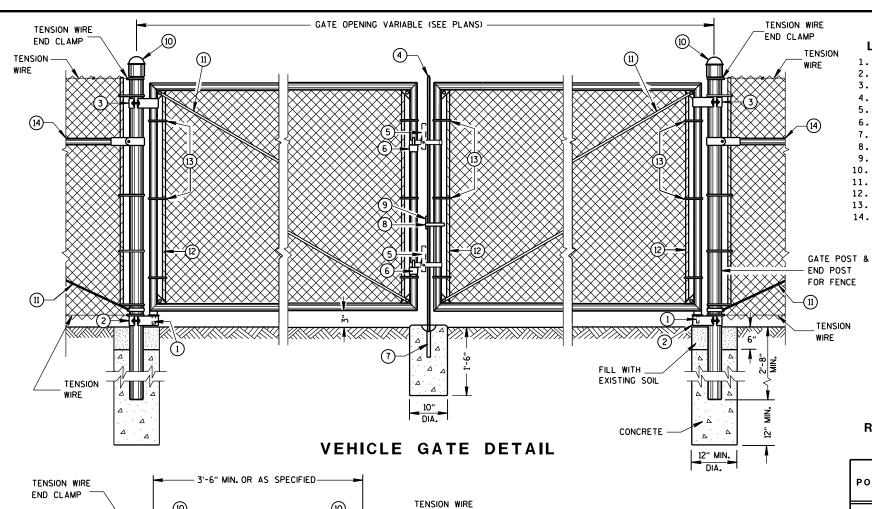
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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END CLAMP

EXISTING SOIL

PEDESTRIAN GATE DETAIL

CONCRETE

12" MIN.

CONCRETE

12" MIN.

**TENSION** 

GATE POST &

END POST

FOR FENCE

TENSION -

GATE POST &

TENSION

END POST

FOR FENCE

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#### REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL	LESS THAN OR EQUAL TO 6 FT.	SP3
POSTS **	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EOUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EOUAL TO 8 FT.	FS3

#### **BRACE RAIL TYPES**

USE	TYPE
BRACE RAIL	SP1 OR FS1

\*\* INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

- LEGEND 1. STRAIGHT PLUG
- 2. BOTTOM HINGE
- TOP HINGE
- 4. PLUNGER ROD
- 5. FULCRUM LATCH 6. FORK CATCH \*
- 7. PLUNGER ROD CATCH
- 8. LOCK KEEPER GUIDE
- 9. LOCK KEEPER
- 10. DOME TOPS
- 11. TRUSS RODS 12. TENSION BAR
- 13. TENSION BANDS
- 14. BRACE RAIL

\*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

#### **GENERAL NOTES**

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

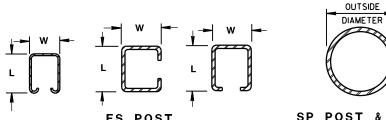
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.





SP POST & RAIL

#### CROSS SECTIONS OF POSTS AND RAILS

#### **ROLLED-FORMED STEEL FENCE POST** (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W)	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	FS2† 1.875		1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

#### **ROUND STEEL FENCE POST** (1.8 OZ./SQ. FT. COATING)

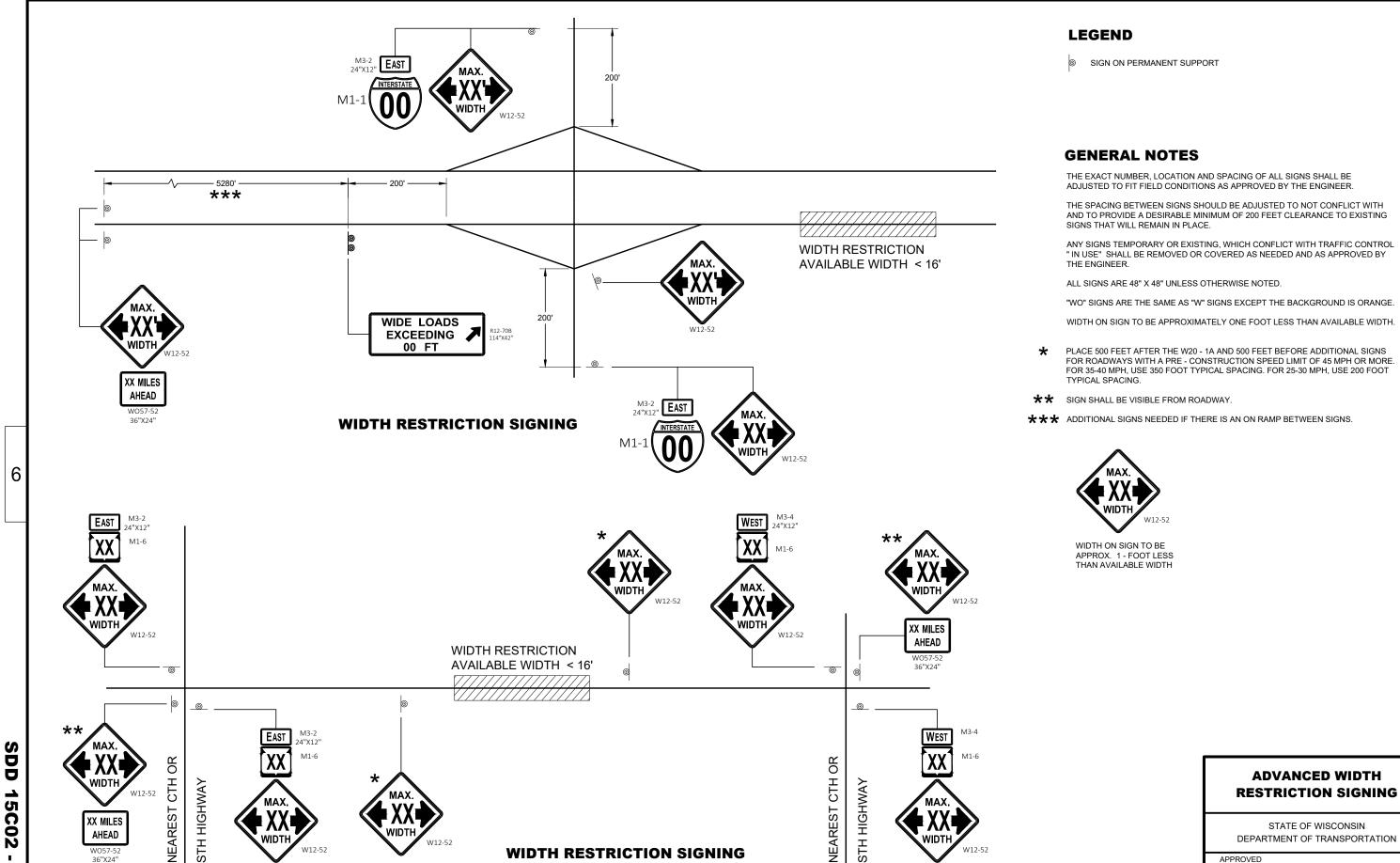
POST TYPE	OUTSIDE Dimension Inch	WALL THICKNESS INCH	WEIGHT LBS/FT	
SP1	1.660	0.140	2.270	
SP2	1.900	0.145	2.720	
SP3	2.375	0.154	3.650	
SP4	2.875	0.203	5.800	
SP5	4.000	0.226	9.120	
SP6	6.625	0.280	18.990	
SP7	8.625	0.322	28.580	

#### REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
	LESS THAN OR EQUAL TO 6 FT.	SP4
GATES	LESS THAN OR EOUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EOUAL TO 23 FT.	SP7
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FENCE CHAIN LINK

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**2 LANE HIGHWAY** 

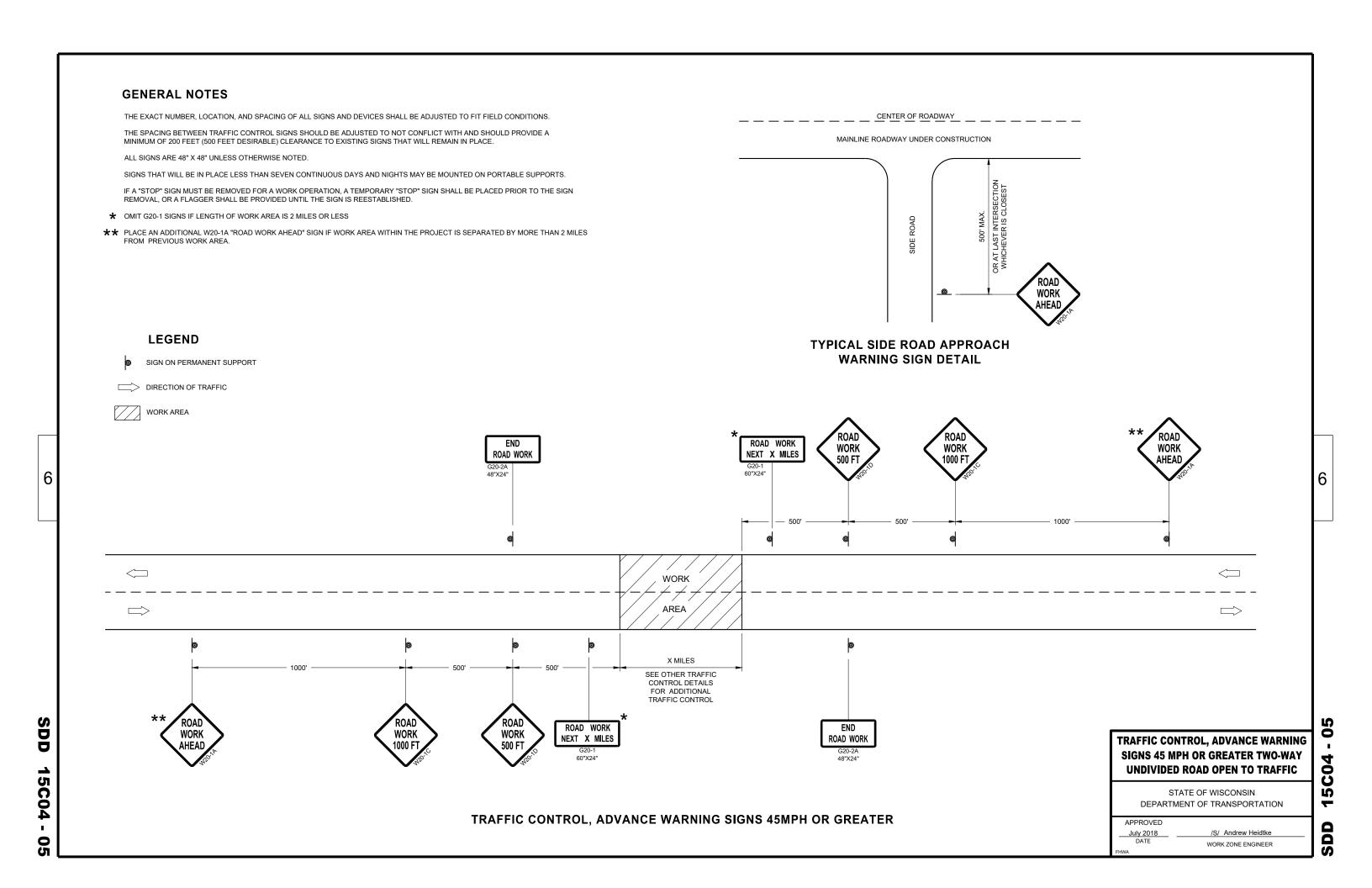
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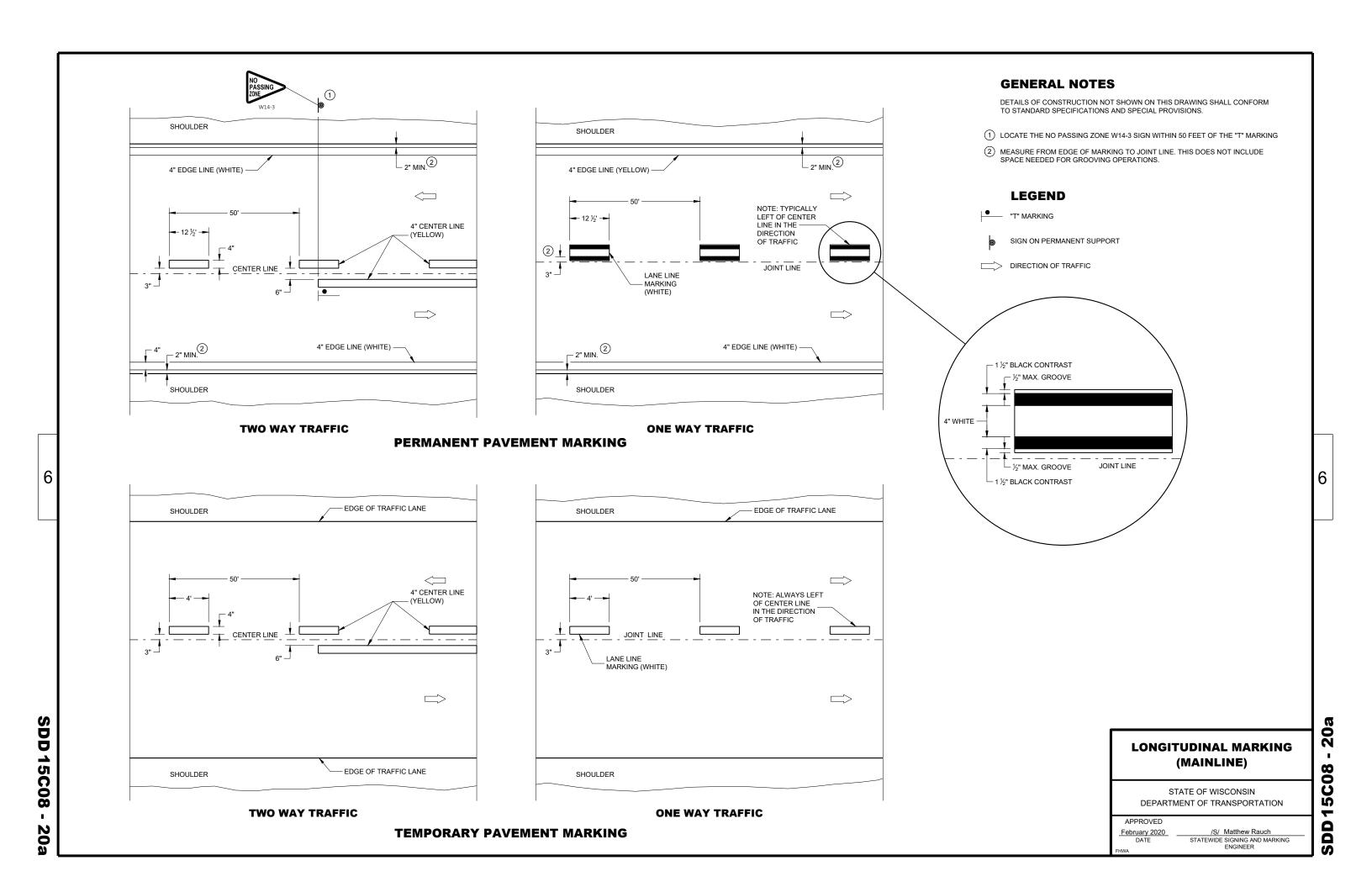
APPROVED

February 2020

DATE

WORK ZONE ENGINEER





#### **GENERAL NOTES**

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

#### CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST

60

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SDD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

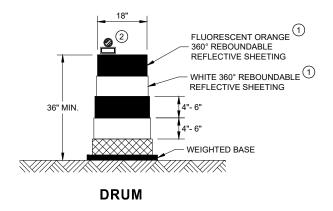
 APPROVED
 /S/ Andrew Heidtke

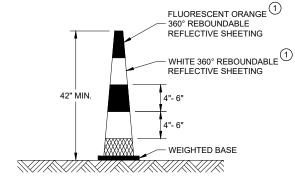
 May 2021
 /S/ Andrew Heidtke

 DATE
 WORK ZONE ENGINEER

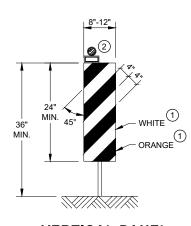
#### **GENERAL NOTES**

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

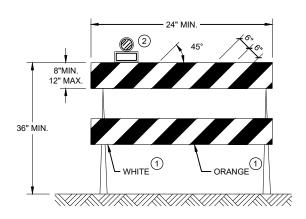




**42" CONE** DO NOT USE IN TAPERS ½ SPACING OF DRUMS

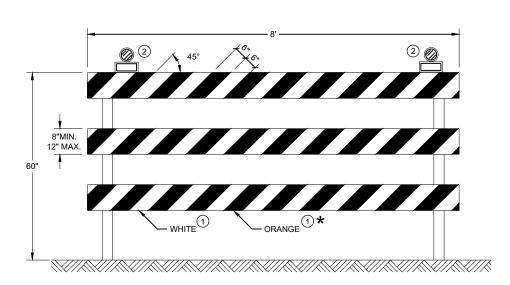


**VERTICAL PANEL** THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### **TYPE II BARRICADE**

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



#### **TYPE III BARRICADE**

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

#### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS**

<u>60</u>

15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
EHW/A	

RUMBLE

STRIPS

ROAD

WORK

#### **GENERAL NOTES FLAGGING LEGEND** FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON SIGN ON PORTABLE OR PERMANENT SUPPORT UNIFORM TRAFFIC CONTROL DEVICES. PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. (2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS**

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

200' - 300' (TYP.)

#### DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE 5' MIN BE SPACING "A" SPEED LIMIT USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A". 35-40 MPH 350' STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK

#### TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

2

S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT

THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

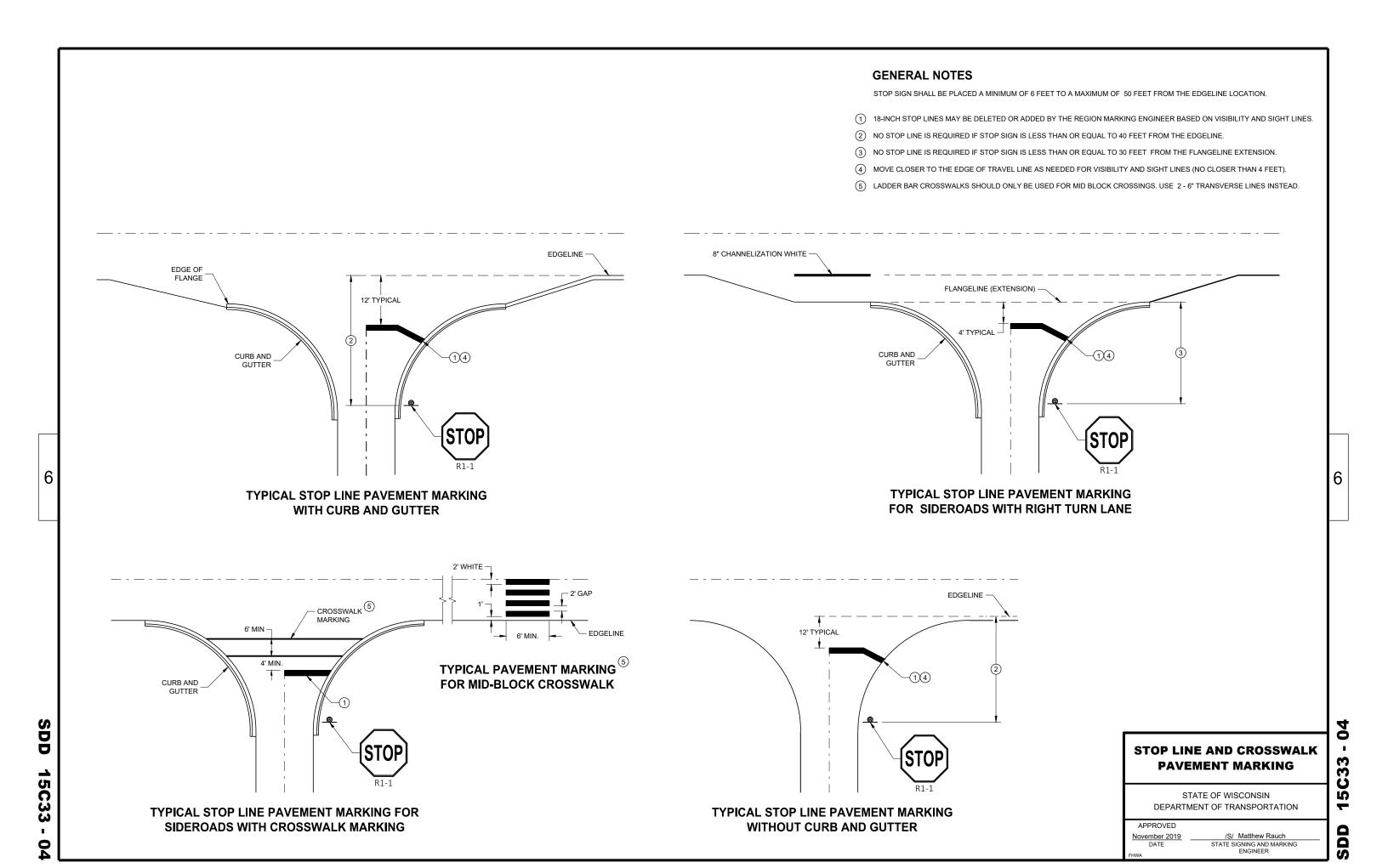
VARIABLE DISTANCE

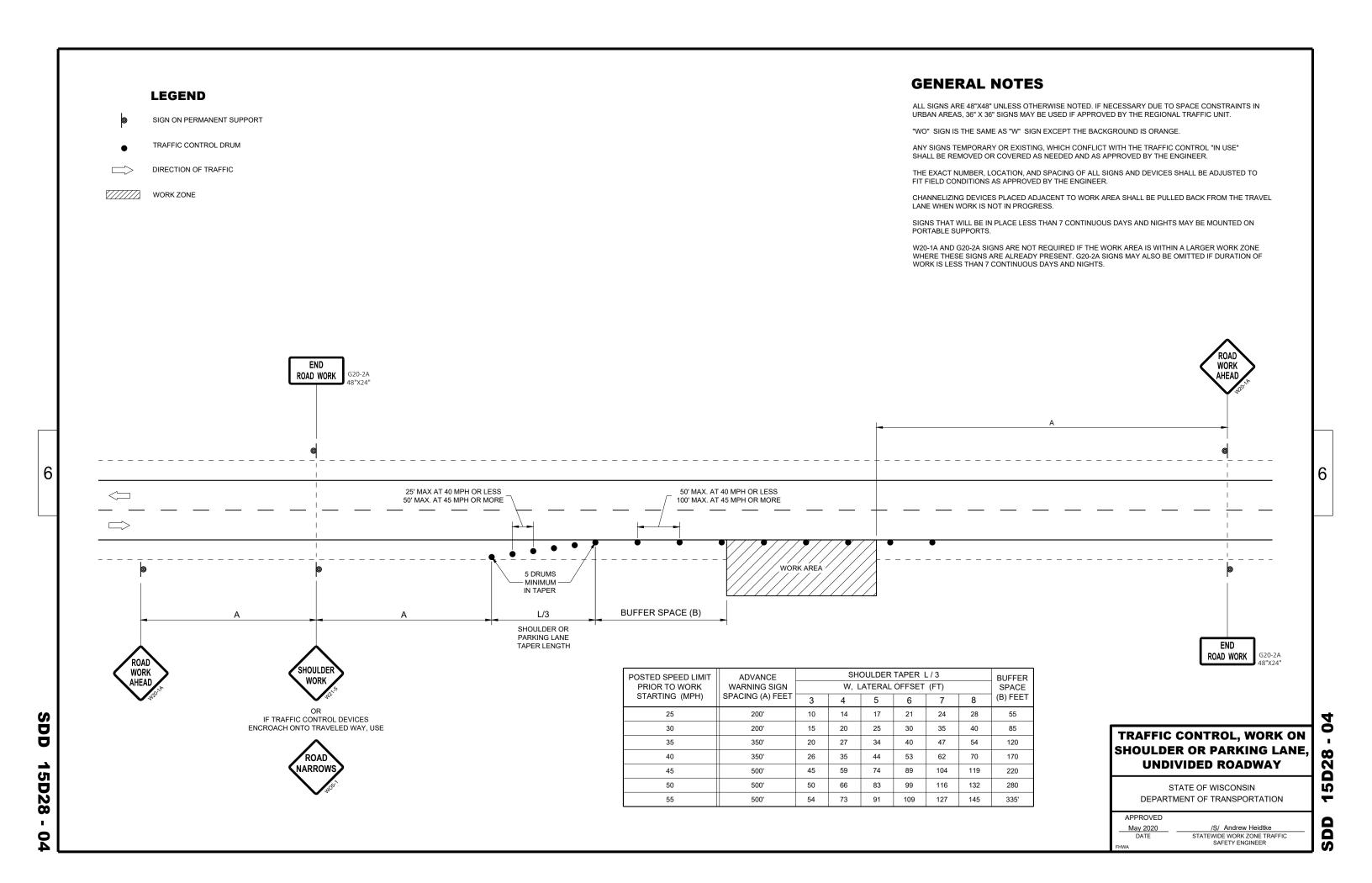
DATE WORK ZONE ENGINEER WORK ZONE ENGINEER

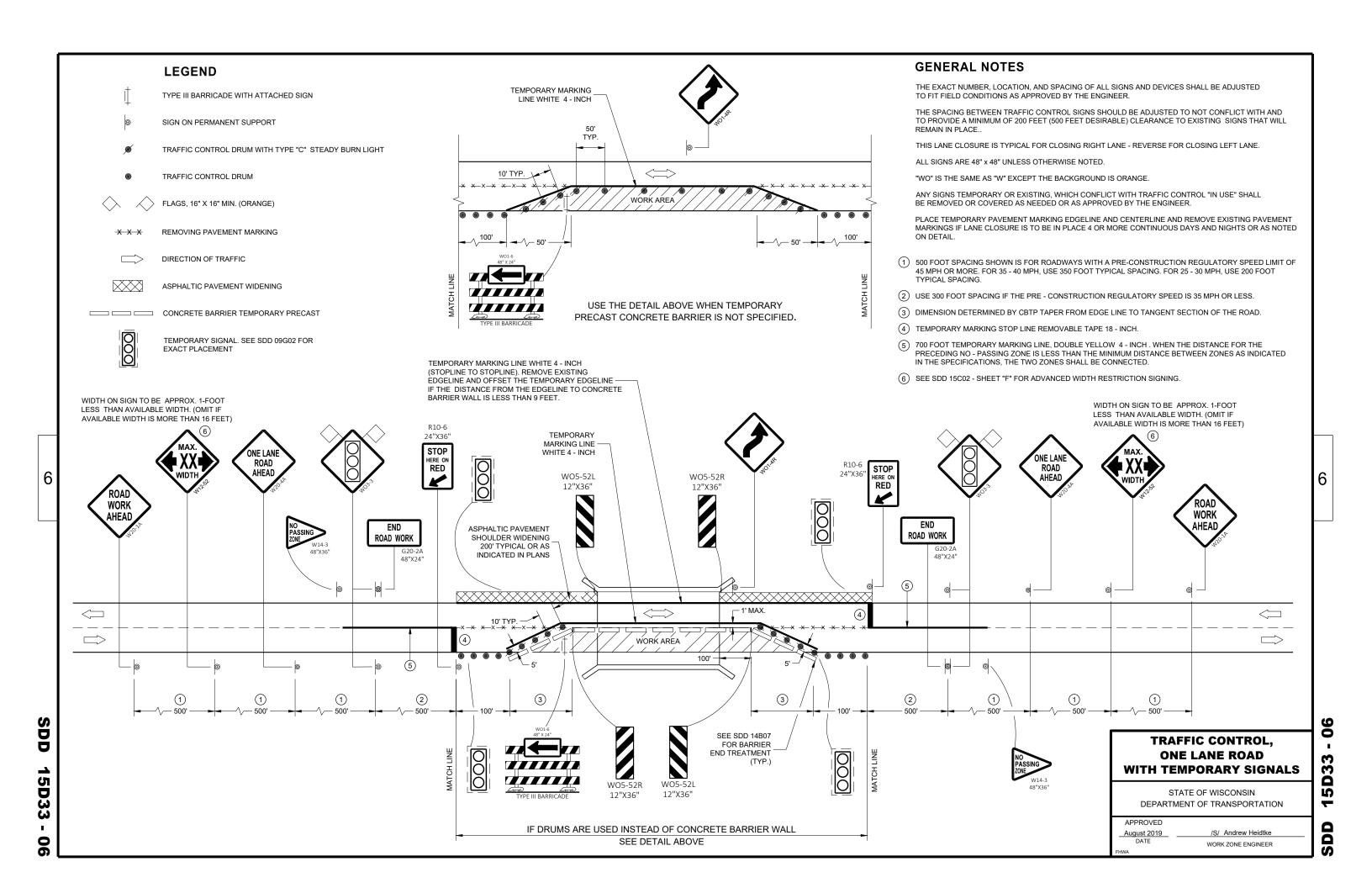
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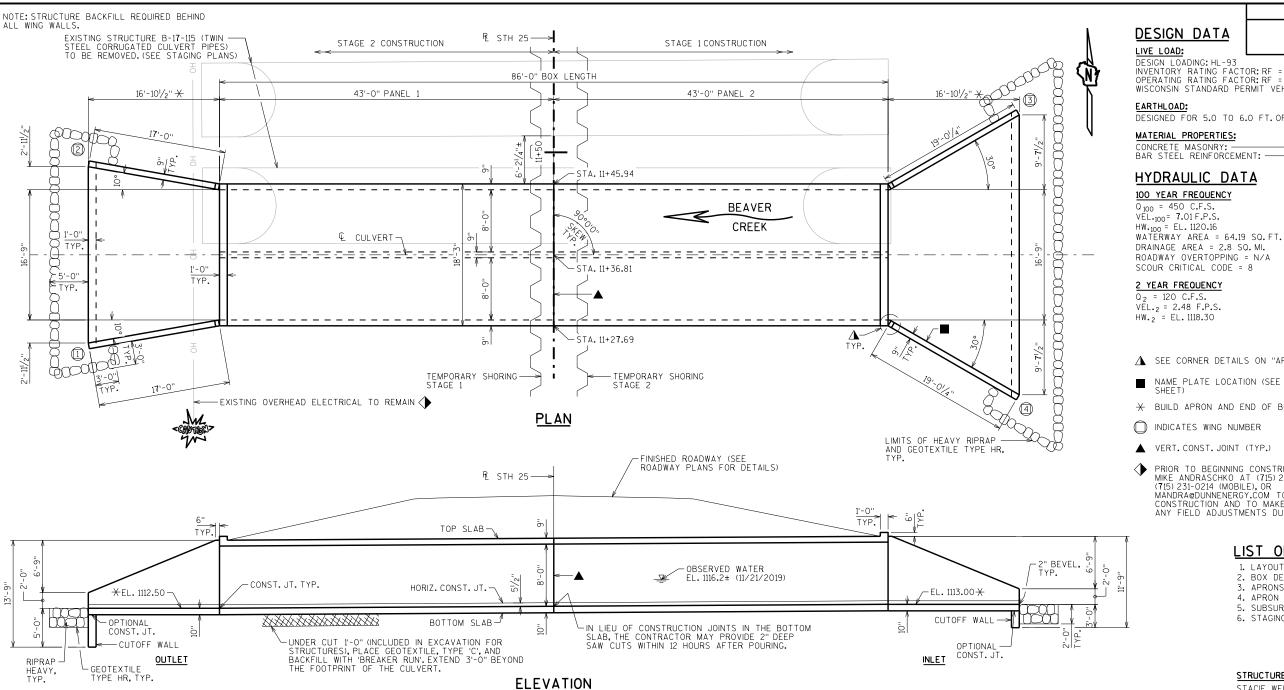
WORK ZONE ENGINEER

6









DESIGN DATA

8090-00-73

#### LIVE LOAD:

DESIGN LOADING: HL-93 INVENTORY RATING FACTOR: RF = 1.05 OPERATING RATING FACTOR: RF = 1.35 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 255(KIPS)

EARTHLOAD:

DESIGNED FOR 5.0 TO 6.0 FT. OF FILL.

#### MATERIAL PROPERTIES:

CONCRETE MASONRY:

BAR STEEL REINFORCEMENT: - fy = 60,000 P.S.I.

#### HYDRAULIC DATA

#### TRAFFIC VOLUME STH 25

STATE PROJECT NUMBER

100 YEAR FREQUENCY

 $\overline{ADT} = 3,050 (2047)$ R.D.S. = 55 M.P.H.

#### 2 YEAR FREQUENCY

Q<sub>2</sub> = 120 C.F.S. VĒL.<sub>2</sub> = 2.48 F.P.S.  $HW_{-2} = EL.1118.30$ 

- ⚠ SEE CORNER DETAILS ON "APRON DETAILS" SHEET
- NAME PLATE LOCATION (SEE "APRON DETAILS" SHEET)
- \* BUILD APRON AND END OF BOX LEVEL
- VERT. CONST. JOINT (TYP.)
- PRIOR TO BEGINNING CONSTRUCTION, CONTACT MIKE ANDRASCHKO AT (715) 232-6240 (OFFICE), (715) 231-0214 (MOBILE), OR MANDRA@DUNNENERGY.COM TO NOTIFY START OF CONSTRUCTION AND TO MAKE ARRANGEMENTS FOR ANY FIELD ADJUSTMENTS DURING CONSTRUCTION.

#### LIST OF DRAWINGS

- 1. Ι ΔΥΟΠΤ
- 2. BOX DETAILS
- 3. APRONS 4. APRON DETAILS
- 5. SUBSURFACE EXPLORATION
- 6. STAGING

#### STRUCTURE DESIGN CONTACTS:

STACIE WEIS DOMINIQUE BECHLE

(608) 261-6109 (608) 261-8205

### NO. DATE BY **BUREAU OF** 02/25/22 CHIEF STRUCTURES DESIGN ENGINEER DATE

#### STRUCTURE C-17-49

STH 25 OVER BEAVER CREEK WILSO DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED SEW CK'D. SM BY DDS/SEW CK'D. SEW

SHEET 1 OF LAYOUT

#### GENERAL NOTES

8

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-17-49" SHALL BE THE EXISTING GROUNDLINE.

ALL VOLUME WHICH CANNOT BE PLACED BEFORE CULVERT CONSTRUCTION AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE MACKFILL WITHIN THE LENGTH OF THE CULVERT INCLUDING THE APRON WING WALLS.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

THE CONCRETE IN THE CUTOFF WALLS MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

LOOKING NORTH

PLACE 18" (MIN.) WIDE SHEET OF "RUBBERIZED MEMBRANE WATERPROOFING" ON TOP SLAB OVER ALL CONSTRUCTION JOINTS AND EXTEND DOWN TO BOTTOM OF OUTSIDE WALLS.

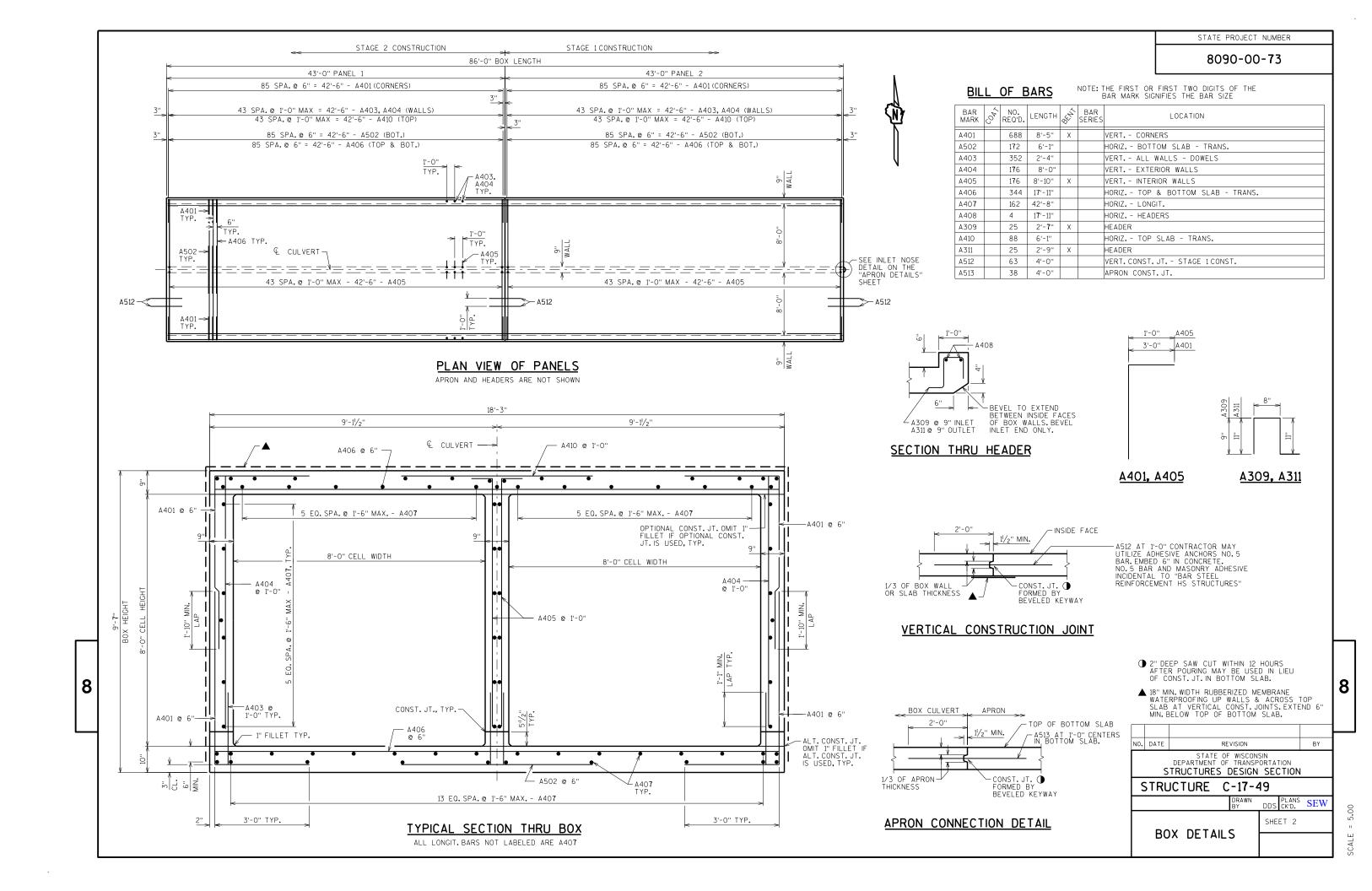
THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO PRECAST DETAILS ON CHAPTER 36 STANDARDS OF THE CURRENT WISC. DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON THE QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

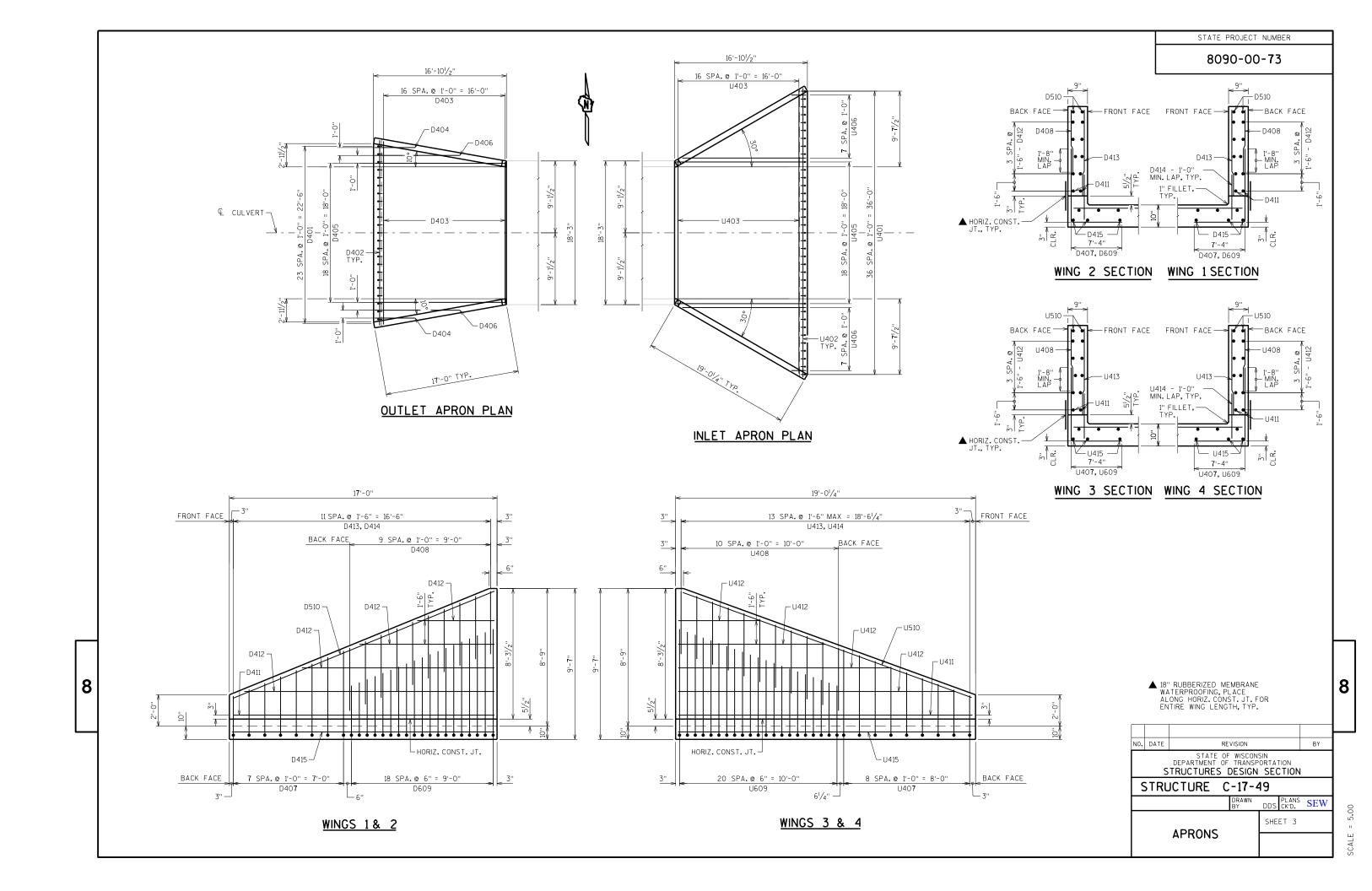
THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE FIELD ENGINEER, IN LIEU OF THE BREAKER RUN, TO BE UTILIZED AS A CONSTRUCTION PLATFORM FOR THE BOX. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL.

THE NORTHWEST REGION SOILS ENGINEER SHOULD BE PRESENT TO EVALUATE THE SUBSURFACE CONDITIONS AT THE TIME OF CONSTRUCTION.

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0220	REMOVING STRUCTURE B-17-115	EACH	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-17-49	LS	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	1784
311.0115	BREAKER RUN	CY	116
504.0100	CONCRETE MASONRY CULVERTS	CY	194
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	18,690
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,420
511.1200	TEMPORARY SHORING C-17-49	SF	1400
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	24
606.0300	RIPRAP HEAVY	CY	33
645.0105	GEOTEXTILE TYPE C	SY	374
645.0120	GEOTEXTILE TYPE HR	SY	79
	NON-BID ITEMS		
	FILLER	SIZE	3/4"
	FILLER	SIZE	

TOTAL ESTIMATED QUANTITIES





8090-00-73

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE



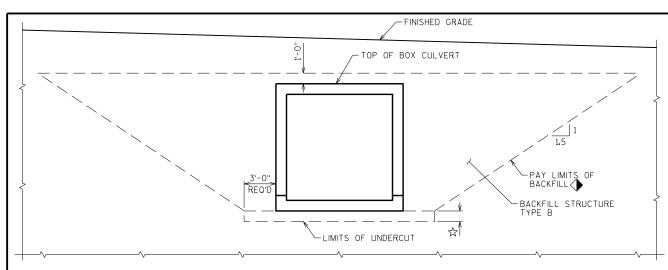
⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

#### BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
U403	1 SERIES OF 17	18'-0" TO 36'-6"
U406	2 SERIES OF 8	2'-8" TO 14'-9"
U407	1 SERIES OF 9	9'-10" TO 12'-9"
U609	1 SERIES OF 21	10'-9" TO 14'-4"
U412	2 SERIES OF 4	5'-2" TO 1 <b>7</b> '-6"
U413	1 SERIES OF 14	1'-5" TO 8'-1"
D403	1 SERIES OF 17	17'-11" TO 23'-7"
D407	1 SERIES OF 8	9'-10" TO 12'-9"
D609	1 SERIES OF 19	10'-8" TO 14'-4"
D412	2 SERIES OF 4	4'-7" TO 15'-7"
D413	1 SERIES OF 12	1'-5" TO 8'-1"

→ 3/4" FILLER, TYP. EXTEND FILLER FROM HORIZ. CONST. JT. TO TOP OF WING.

NO. DATE BY REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE C-17-49 DDS CK'D. SEW SHEET 4 **APRON DETAILS** 

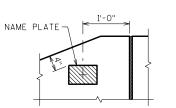


### TYPICAL SECTION THRU BOX CULVERT

◆ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

☆ UNDER CUT 1'-0".EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES, PLACE "GEOTEXTILE TYPE C" AND BACKFILL WITH "BREAKER RUN".

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.



CORNER DETAILS

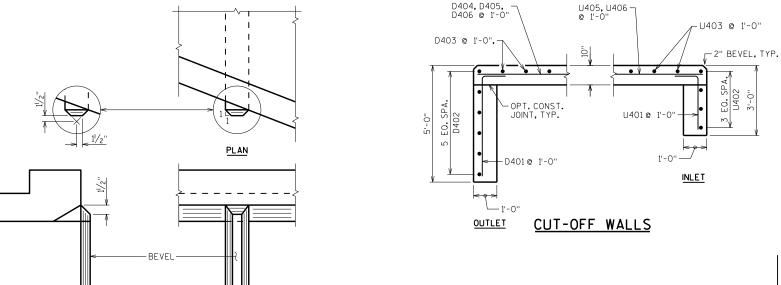
CORNER 3

CORNER 4

CORNER 2

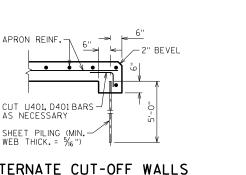
CORNER 1

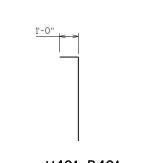
NAME PLATE LOCATION WING 4





ELEVATION





ALTERNATE CUT-OFF WALLS

THE ABOVE ALTERNATIVE MAY BE USED IN LIEU OF CAST-IN-PLACE CONCRETE CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONCRETE CUT-OFF WALLS.

U407, U609, D407, D609

8

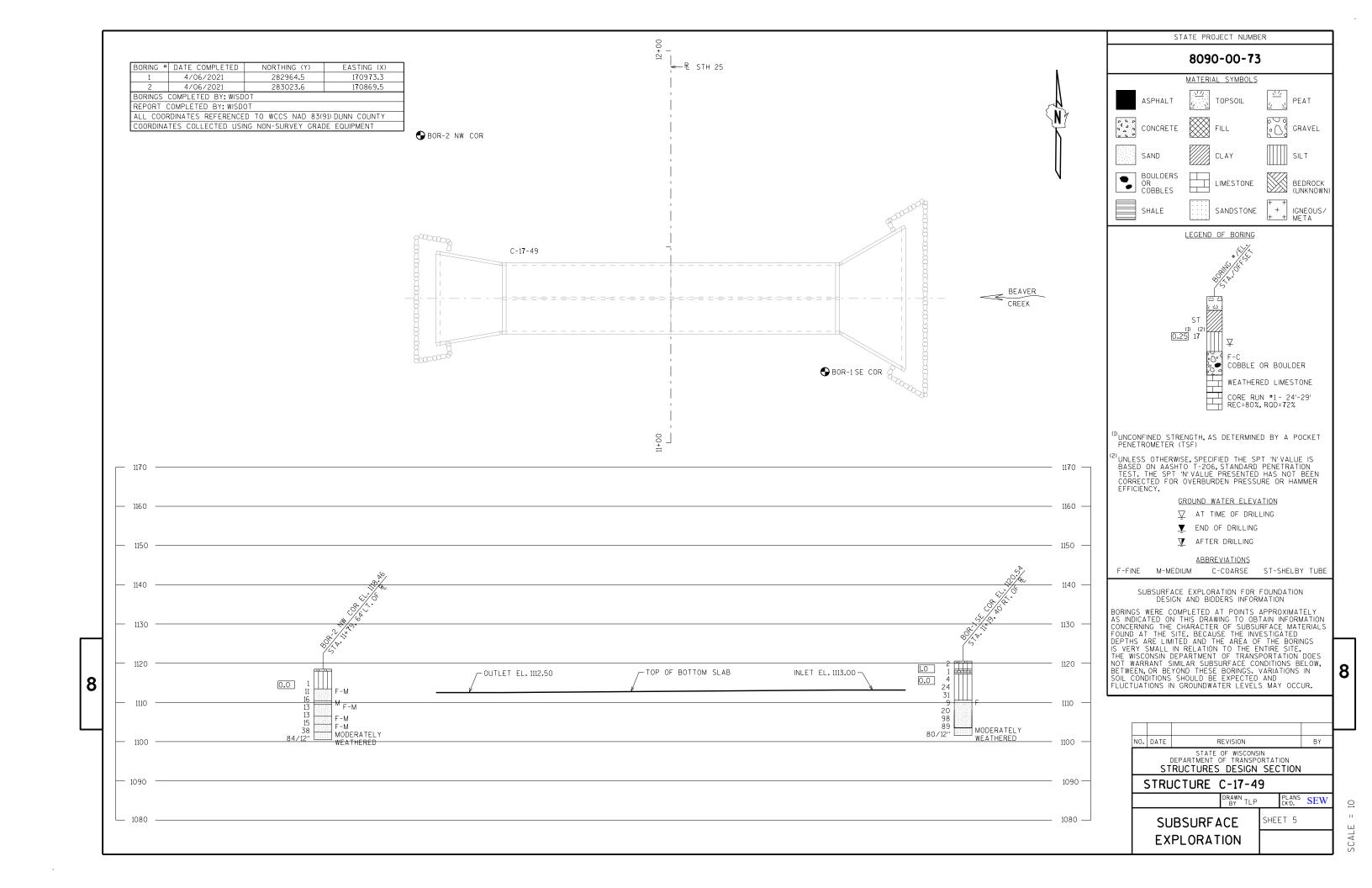
INLET NOSE DETAILS

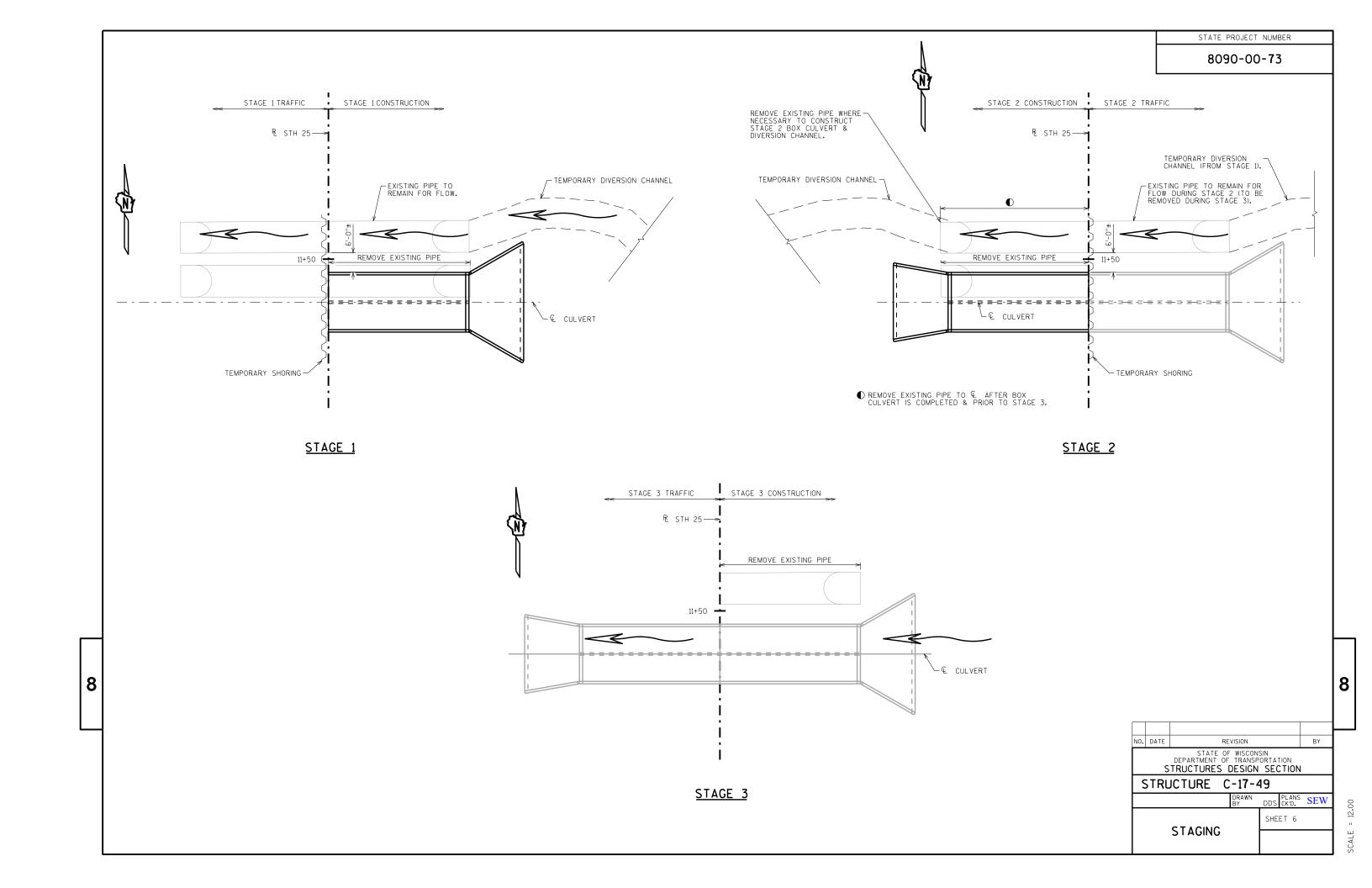
**SECTION** 

U401, D401

☑ 1" BEVEL, TYP.

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING.EXTEND FROM HORIZ.CONST.JT.TO TOP OF WALL.





#### EARTHWORK - STH 25

	AREA (SF) INCREMENTAL VOL (CY)						CUMMULATIVE VOLUME (CY)				
					SALVAGED/						
		SALVAGED/			UNUSABLE		FILL	CUT		FILL	MASS
		UNUSABLE		CUT	PAV'T MATERIAL	FILL		1.00		<b>"</b> (25%)	ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	NOTE 1	NOTE 2	NOTE 3	(25%)	NOTE 1	FILL	NOTE 4	NOTE 5
9+00	0	0	0	0	0	0	0	0	0	0	0
9+50	25	0	4	23	0	4	5	23	4	5	18
10+00	34	0	0	54	0	4	5	77	8	10	67
10+50	37	0	0	65	0	0	0	143	8	10	133
10+75	73	0	0	51	0	0	0	193	8	10	183
10+75	73	0	0	0	0	0	0	193	8	10	183
11+00	73	0	0	67	0	0	0	261	8	10	251
11+50	66	0	84	128	0	78	98	389	86	108	281
12+00	73	0	0	129	0	78	98	518	164	205	312
12+00	73	0	0	0	0	0	0	518	164	205	312
12+50	37	0	6	102	0	5	7	619	169	212	408
13+00	30	0	0	62	0	5	6	681	175	220	461
13+50	0	0	0	28	0	0	0	710	175	220	490

COLUMN TOTALS = 710 220 490

NOTES: 1 - CUT CUT INCLUDES SALVAGED/UNUSABLE MATERIAL 2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL 3 - FILL THIS DOES NOT SHOW UP IN CROSS SECTIONS
DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME 4 - FILL (25%) 5 - MASS ORDINATE FILL 25%: ( UNEXPANDED FILL - (ROCK \* ROCK FACTOR))\*1.25 (CUT - FILL (25%))

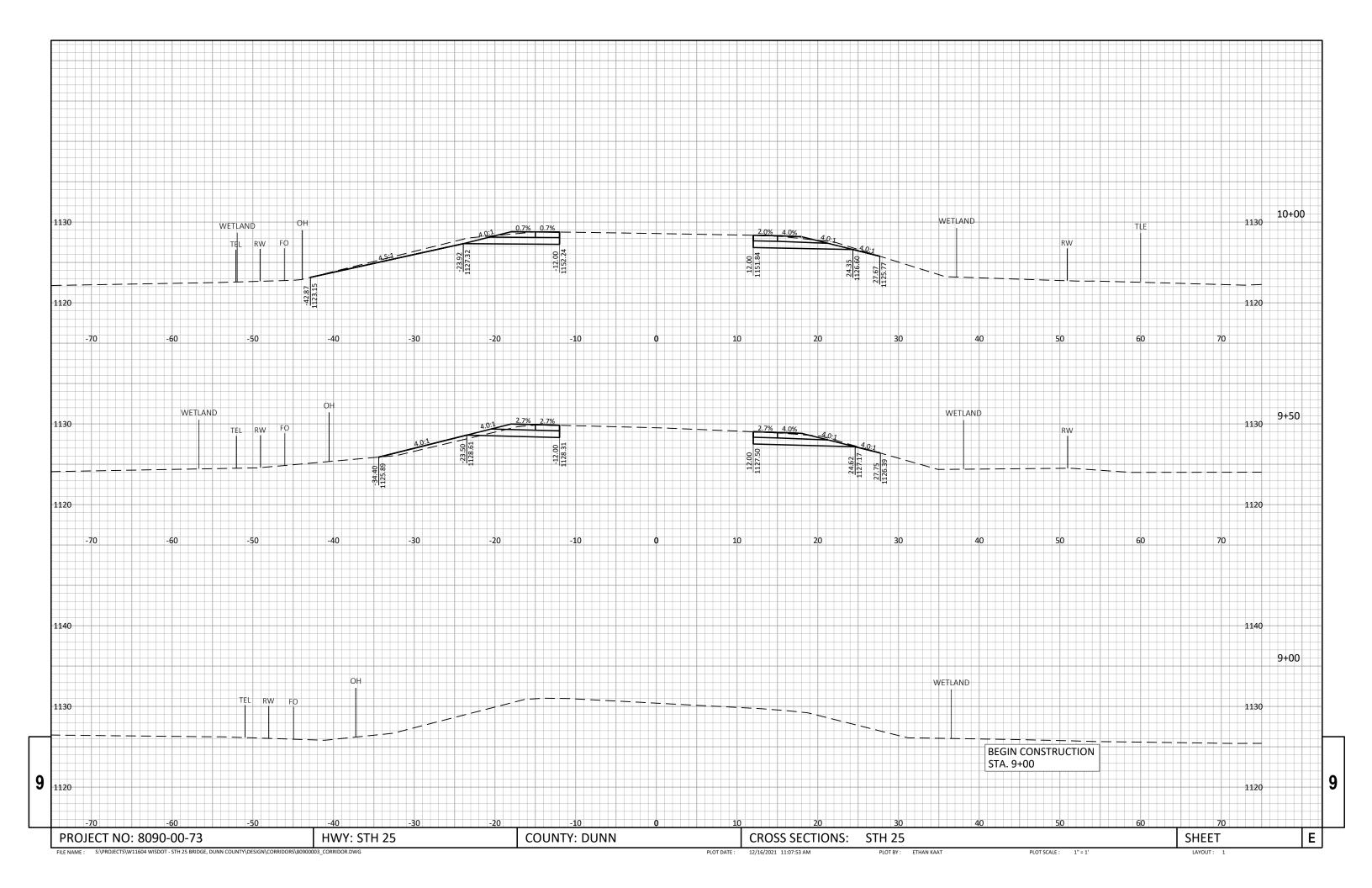
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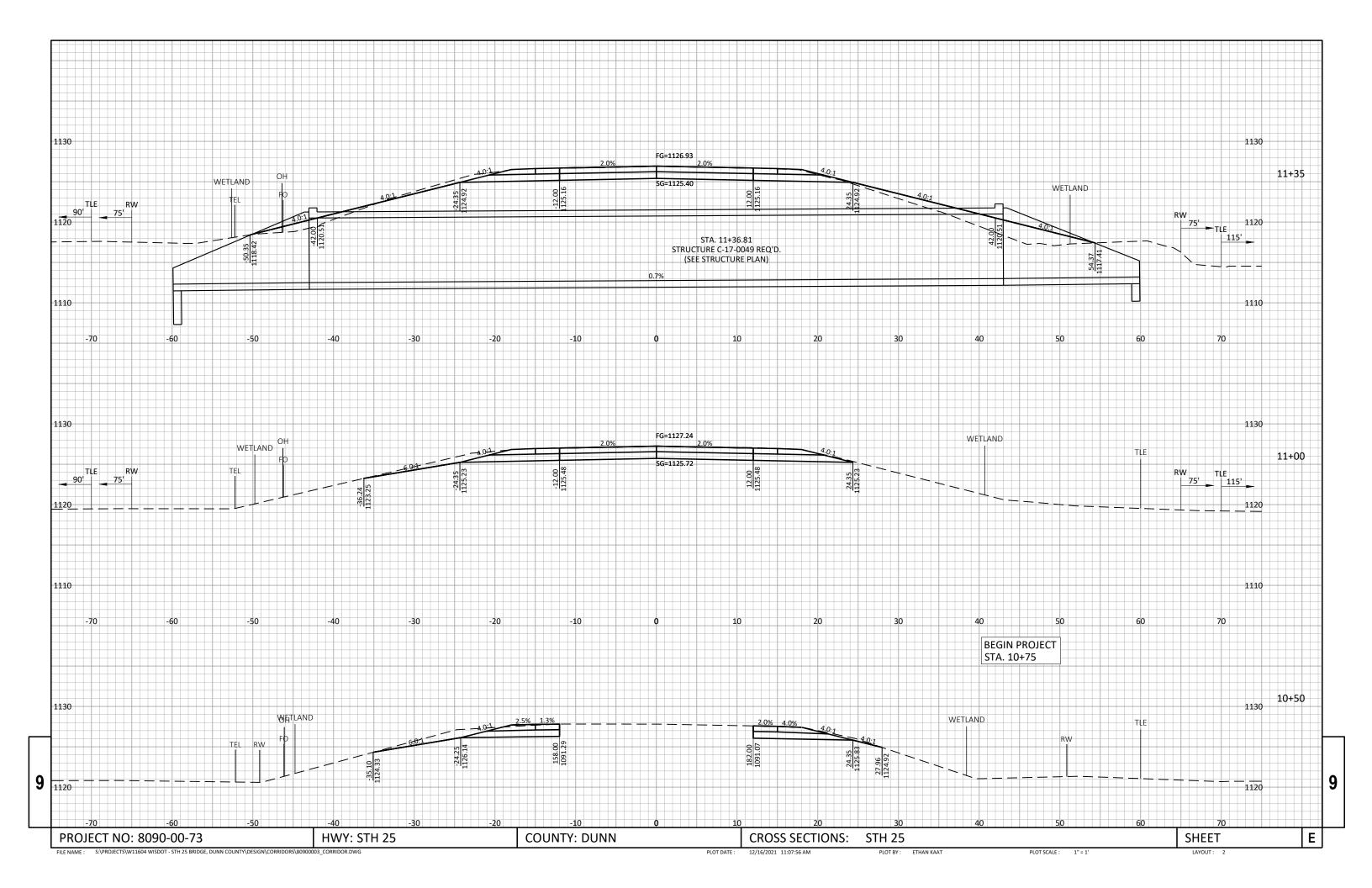
COUNTY: DUNN HWY: STH 25 Ε PROJECT NO: 8090-00-73 EARTHWORK SHEET PLOT BY: ETHAN KAAT

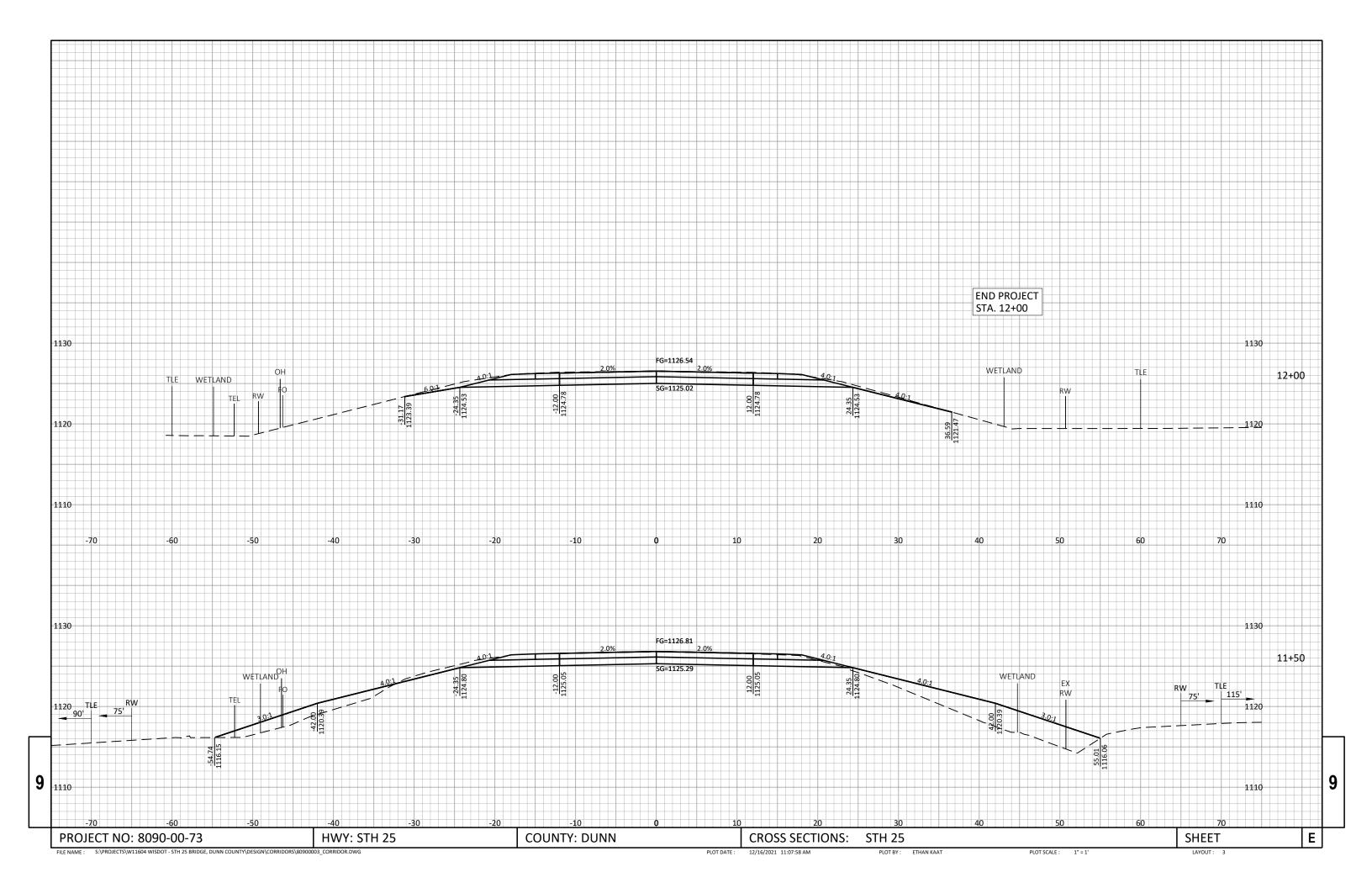
FILE NAME : S:\PROJECTS\W11604 WISDOT - STH 25 BRIDGE, DUNN COUNTY\SHEETSPLAN\DETAILS\80900003\_EARTHWORK.DWG

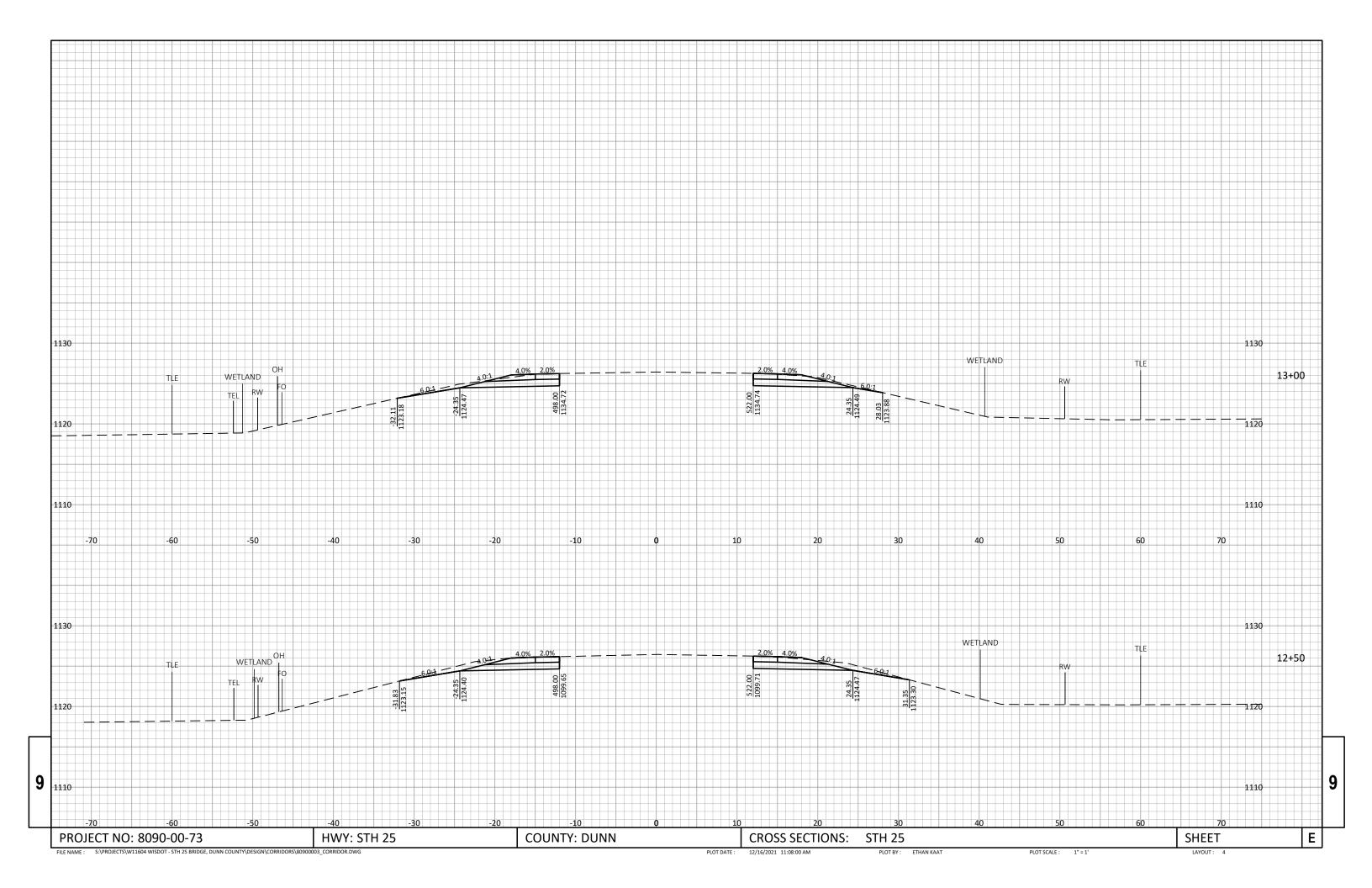
PLOT DATE : 12/16/2021 11:07:38 AM

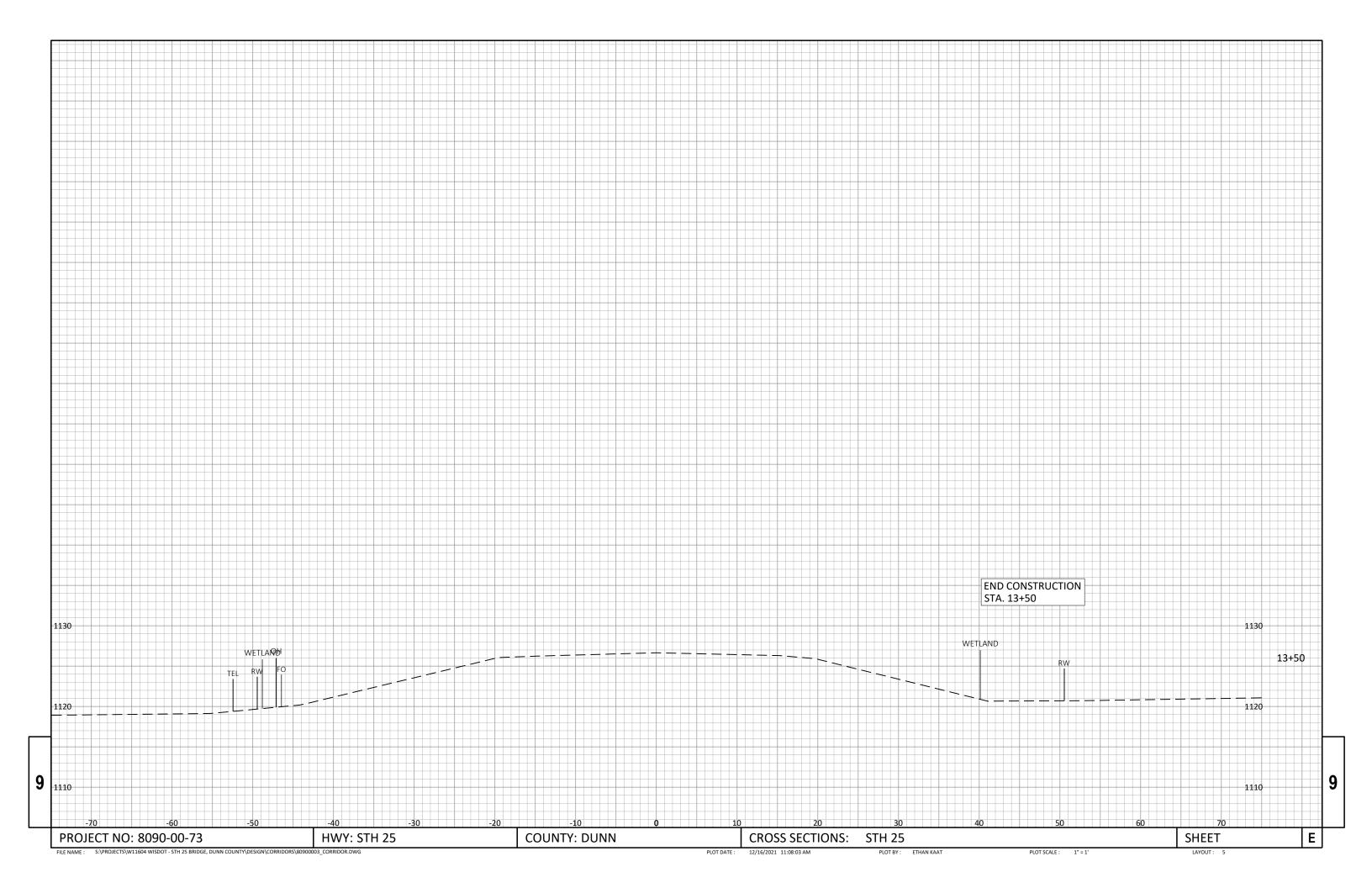
LAYOUT: LAYOUT1

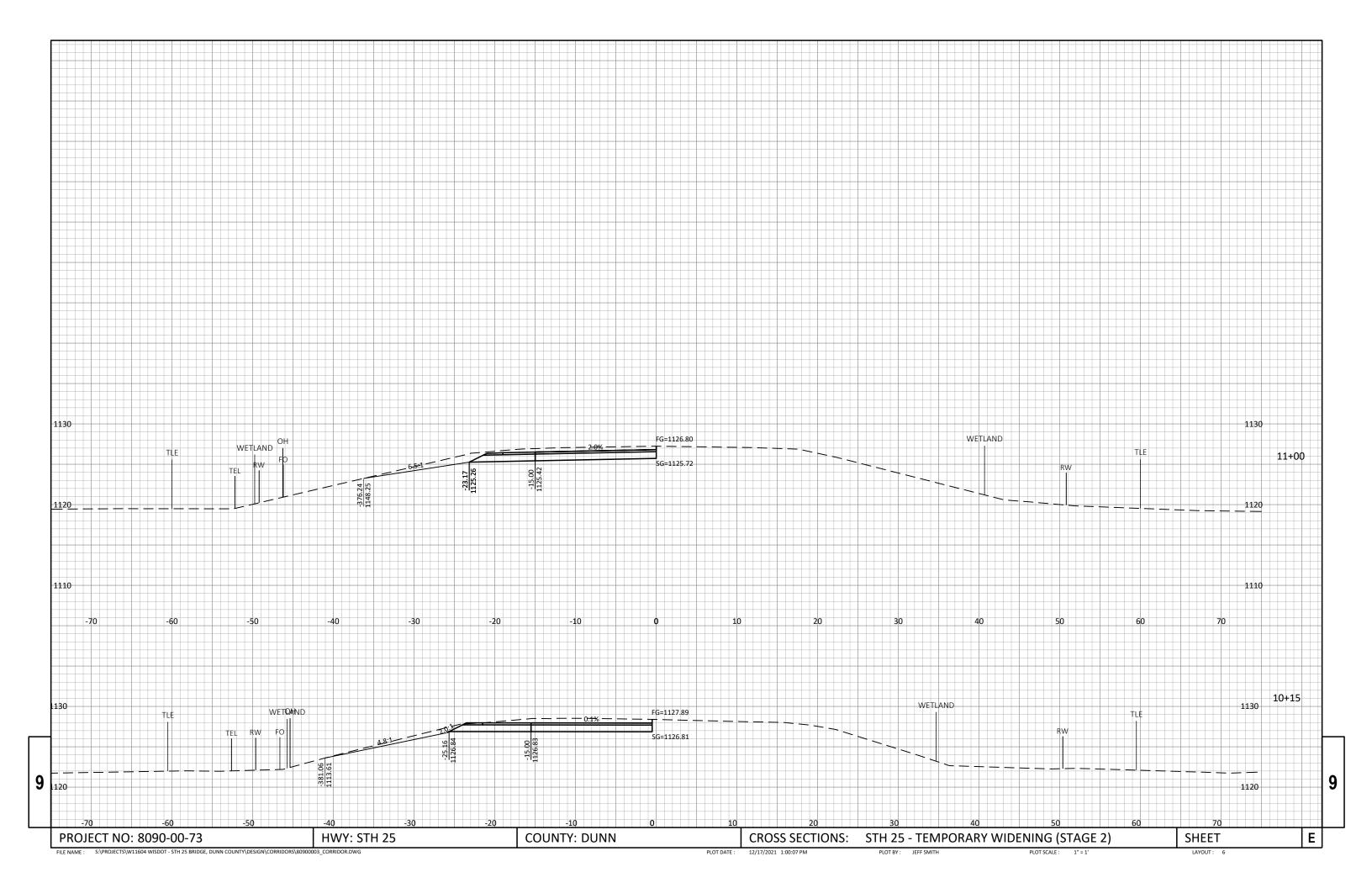


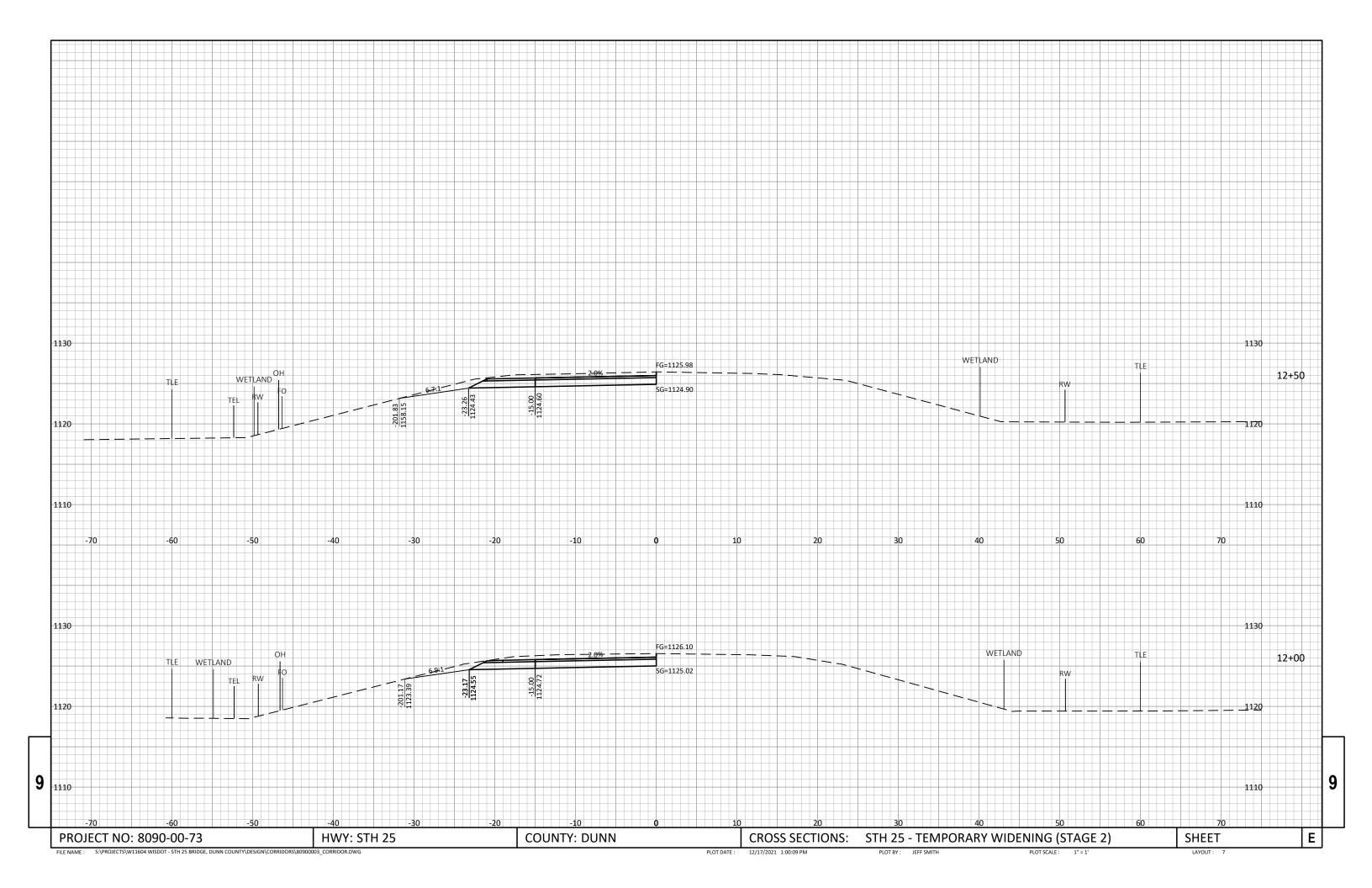


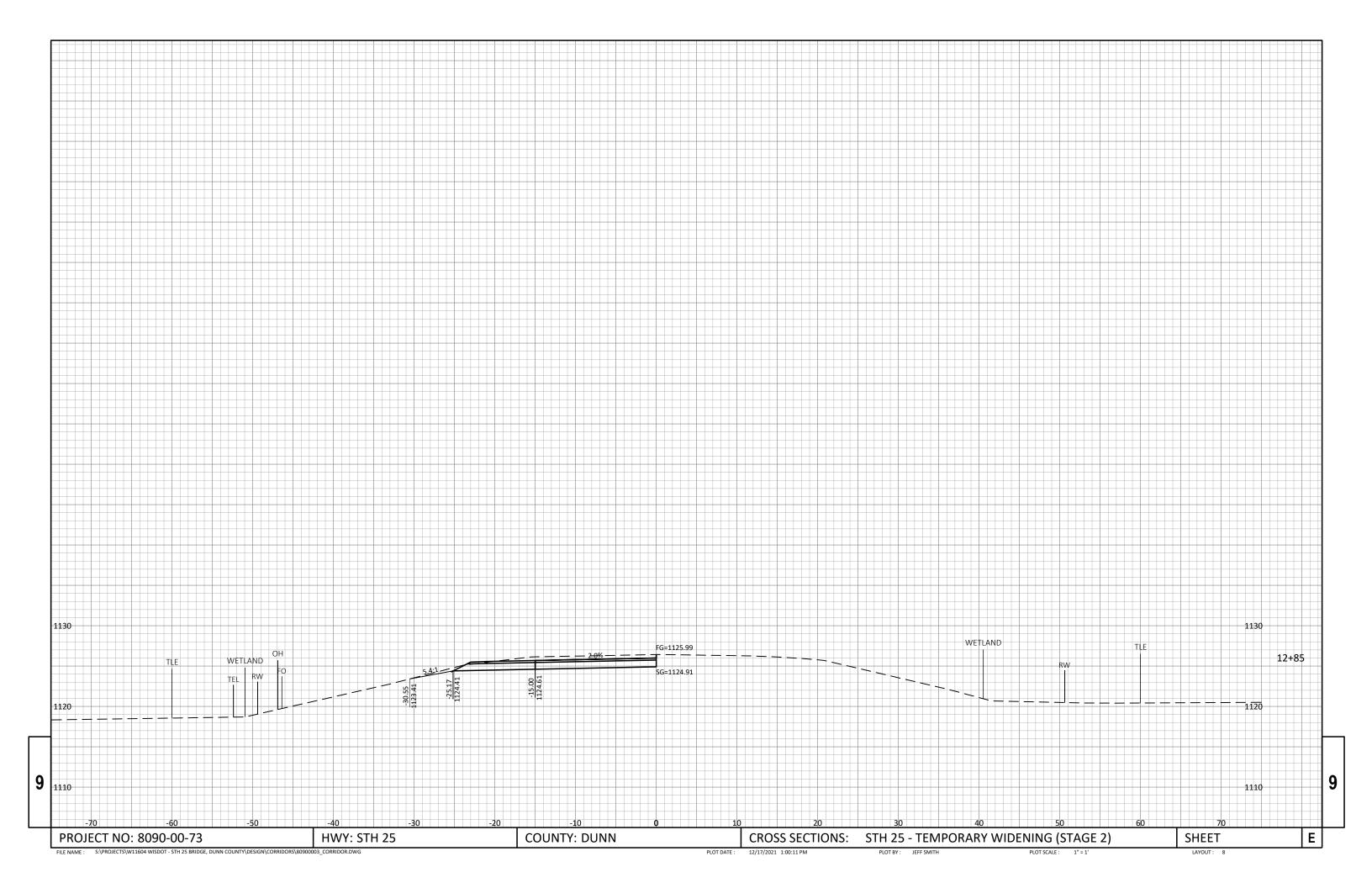




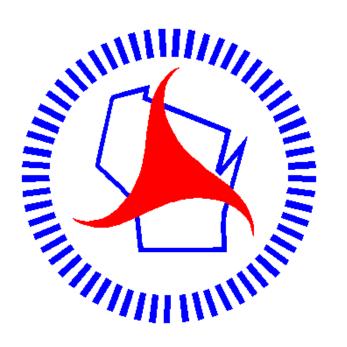








Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov